LEXICAL PROFICIENCY OF COLLOCATION, BOOSTING, AND HEDGING IN ACADEMIC DISCOURSE: A COMPARATIVE STUDY

CÜNEYT DEMİR

Doctoral Dissertation

Department of Foreign Languages Teaching Prof. Dr. Mehmet TAKKAÇ 2016 (All Rights Reserved)

THE UNIVERSITY OF ATATURK THE INSTITUTE OF EDUCATIONAL SCIENCES DEPARTMENT OF FOREIGN LANGUAGES TEACHING DEPARTMENT OF ENGLISH LANGUAGE TEACHING

LEXICAL PROFICIENCY OF COLLOCATION, BOOSTING, AND HEDGING IN ACADEMIC DISCOURSE: A COMPARATIVE STUDY

(Akademik Metinlerde Sözcüksel Eşdizim, Kaçınma ve Vurgulama Yeterliliği: Bir Karşılaştırma Çalışması)

DOCTORAL DISSERTATION

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ERZURUM JANUARY, 2016

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Doktora Tezi olarak sunduğum "AKADEMİK METİNLERDE SÖZCÜKSEL EŞDİZİM, KAÇINMA, VE VURGULAMA YETERLİLİĞİ: BİR KARŞILAŞTIRMA ÇALIŞMASI" başlıklı çalışmanın, tarafımdan yazıldığı ve yararlandığım eserlerin kaynakçada gösterilenlerden olduğunu, bunlara atıf yapılarak yararlanılmış olduğunu belirtir ve onurumla doğrularım.

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ABSTRACT

DOCTORAL DISSERTATION

LEXICAL PROFICIENCY OF COLLOCATION, BOOSTING, AND HEDGING IN ACADEMIC DISCOURSE: A COMPARATIVE STUDY

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Three writing conventions which are considered to be useful for writers in order to produce persuasive and efficient academic writings were discussed in the present study, which are namely lexical collocations, lexical hedges, and lexical boosters. Accordingly, the general purpose of the present dissertation is three-fold: (1) statistical investigations, (2) descriptive investigations, and (3) pedagogical implications. In connection to the first purpose, the present study aimed to reveal the differences and similarities between Anglophonic writers and Turkish writers of English in terms of using lexical collocations, lexical hedges, and lexical boosters. In order to achieve the second purpose, Anglophonic and Turkish writers' academic writings were examined, and some authentic examples regarding the use of three linguistic component were illustrated. The last purpose was attained after a series of extensive literature review and individual conclusions.

In total two hundred academic articles written on English language teaching, equally shared by Anglophonic and Turkish authors, constructed the sample corpus. The corpus were gathered randomly from different international English-medium journals. Identifications of collocations, hedges, and boosters were done based on two eclectic taxonomies. The sample data were analyzed manually and through a PC-based software. For quantitative analyses, chi-squire test was applied to the manually analyzed outcomes. For qualitative analyses, content analysis was used with a purpose of revealing authentic usage-based differences between two groups of authors.

The findings evidenced that Anglophonic writers used much more collocations in their academic texts, and the differences at sub-categorical levels were largely statistically significant. It seems that frequent strong collocation usage in non-native writer sample data detract academic writing from being native-like. Therefore, the present study suggested a collocation list compiled from Anglophonic writers' sample data. In addition, the results proved the frequency superiority of Anglophonic writers over Turkish writers in terms of two rhetorical devices; hedging and boosting. The less use of hedging and boosting appears to be in connection to insufficient author awareness regarding the crucial function of rhetorical devices in academic productions. In similar vein, the present study aimed to increase the visibility of rhetorical devices for particularly non-native writers. Accordingly, lists of hedges and boosters compiled from varied dictionaries were provided in the appendices. It is highly expected that nonnative writers could get advantage of the lists in the course of composing a scientific text. Besides, the study revealed the high lexical variety of Anglophonic writers when compared to Turkish authors. Another note-worthy event in the present study is the pedagogical implications with respect to how to use collocations, hedges, and boosters in academic writings.

Keywords: collocation, hedging, boosting, academic, writing

ÖZET

DOKTORA TEZĬ

AKADEMİK METİNLERDE SÖZCÜKSEL EŞDİZİM, KAÇINMA, VE VURGULAMA YETERLİLİĞİ: BİR KARŞILAŞTIRMA ÇALIŞMASI

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Bu çalışmada, etkili ve ikna edici akademik yazma becerisi için önemli ve faydalı olduğu düşünülen üç temel husus incelenmiştir. Bu hususlar sözcüksel eşdizim, sözcüksel kaçınma ve sözcüksel vurgulama olarak sıralanabilir. Bu çerçevede mevcut eser üç temel amaca sahiptir: (1) istatistiksel incelemeler, (2) betimleyici incelemeler, ve (3) pedagojik öneriler. Birinci amaçta çalışma, sözcüksel eşdizim, kaçınma, ve vurgulama açısından Anglofon yazarlar ile İngilizce yazan Türk yazarlar arasında herhangi bir farklılık veya benzerlik olup olmadığını inceledi. İkinci amaçta Anglofon ve Türk yazarların akademik metinleri incelendi ve yazarların eserlerinden sözcüksel eşdizim, kaçınma, ve vurgulama ile ilgili gerçek örneklerden alıntılar yapıldı. Son amaç yoğun literatür taramaları ve bireysel çıkarımların neticesinde gerçekleştirildi.

Çalışmanın verisi Türk yazarlar tarafından İngilizce yazılmış 100 akademik makale ve Anglofon yazarlar tarafından yazılmış 100 akademik makale olmak üzere toplam 200 İngilizce yazılmış makaleden oluşmaktadır. Makaleler İngilizce yayımlanan çeşitli dergilerden seçkisiz olarak toparlandı. Verilerin incelenmesinde iki ayrı eklektik ölçek kullanıldı. Veriler manüel ve bilgisayar tabanlı bir yazılımla analiz edildi. Nicel analizler için chi-squire testi uygulandı. Yazarlar arasında sözcüksel eşdizim, kaçınma, ve vurgulama yapılarının kullanımını ortaya çıkarabilmek için nitel içerik analizi yapıldı.

Sonuçlar, Anglofon yazarların Türk yazarlardan sözcüksel eşdizim kullanılması açısından istatistiksel olarak farklılaştığını; Anglofon yazarların çok daha fazla eşdizim yapıları kullandıklarını gösterdi. Ayrıca, Türk yazarların çoğunlukla sık kullanılan eşdizimleri tercih etmeleri kendilerini Anglofon yazarlardan ayıran önemli bir özellik olarak ortaya çıktı. Mevcut çalışma özellikle anadili İngilizce olmayan yazarlar için bir eşdizim listesi oluşturdu. Çalışma aynı zamanda kaçınma ve vurgulama gibi retorik kullanımlarda Anglofon yazarların sayısal üstünlüklerini de gösterdi. Çalışma, Türk yazarların daha az retorik yapı kullanmalarını bu konuda hakkında düşük bilinçlilik düzeylerine bağlamakta ve akademik yazımlarda retorik kullanımıyla ilgili düşük bilinçlilik düzeylerini arttırmayı amaçladı. Bu çerçevede kaçınma ve vurgulama yapıları için iki ayrı liste oluşturdu. Bundan sonraki akademik yazımlarda, anadili İngilizce olmayan yazarların bu listelerden faydalanması beklenilmektedir. Ayrıca, bu çalışma istatistiksel olarak Anglofon yazarların daha fazla kelime çeşitliliğine sahip olduğunu da ortaya çıkardı. Mevcut çalışmanın diğer kayda değer faydası ise sonunda sözcüksel eşdizim, sözcüksel kaçınma ve sözcüksel vurgulama ile ilgili sunduğu pedagojik önerilerdir.

Anahtar Kelimeler: eşdizim, kaçınma, vurgulama, akademik, yazım

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ABBREVIATIONS

EAP	: English for Academic Purpose
ELT	: English Language Teaching
ESL	: English as Second Language
L1	: Mother Tongue
L2	: Second Language
NNW	: Non-Native Writer
NNWs	: Non-native Writers
NW	: Native Writer
NWs	: Native Writers
SLA	: Second Language Acquisition

CHAPTER I

INTRODUCTION

The contemporary writing, with a history that could be tracked from very early times, has peregrinated a long way to its present status. The earliest signs regarding writing, such us cave paintings and glyptic remnants from thousands of years ago, clue us in predicting the importance of writing that ancient primeval people showed even at the very early stages of human history. As time went on, and human beings began to a communal life, the irresistible need in order to record and transmit information expanded in great measure.

Today writing, as it did in the past, sustains its importance even more than ever. Whether you are required to express yourself or to carry a knowledge onto somebody or somewhere else, the safest way will undoubtedly be writing thanks to its protracted endurance and exact same recording feature. The influence of writing is not restricted to a certain field; on the contrary, it is a multifaceted phenomenon. Even though writing is erratic in its script, (i.e. cuneiform, logographic, syllabic, or alphabetic), its expressive power in all disguises makes writing an indispensible part of people's lives all over the world.

Writing is crucial for different spheres of life. Even, it is the foremost ground upon which one's work, learning experience, or intellectual level will be judged at an educational institute, workplace, and in the community. While writing faculty is a requisite for every aspect of the quotidian life, scholarly writing is an indispensible part of an academic's professional life (Yağız & Yiğiter, 2012), since the need for writing in academe is undoubtedly of greatest importance compared to other fields.

As everything has a collocation with which it can tally, the word 'writing' collocates with the word 'vocabulary'. As stated in various linguistic sources, writing is a complex, sophisticated, and multidimensional process; therefore, it is nearly impossible for a writer, as well as an audience and a reader to appraise a written report regardless of taking lexical proficiency and awareness into account. To say the least, the stringent and indispensible correlation between writing and vocabulary, to a large extent, is an irrevocability especially in terms of academic writing.

In the course of time, the ability to produce a cohesive and understandable written text has become an important and essential skill for academic success (Feagans & Applebaum, 1986). However, the focus was not on spelling or punctuation anymore but on content itself. The deflection from spelling and punctuation towards the content has imposed an obligation on writers to use vocabularies efficiently, so that the content would be well-organized and productive for audience. At this juncture, literature emphasizes the importance of two linguistic titles: *metadiscourse* devices and *collocations*. The introduction of metadiscourse into the applied linguistics occurred in the 1980s (Hyland, 2005), and from then on a large number of studies have aimed to examine the issue and to find out the relation between academic writing, vocabulary, and metadiscourse. In another words, what makes vocabularies so vital for writing, accordingly for academic texts, is their metadiscourse power.

The linguistic literature shows that *hedges* are the most frequently used metadiscourse devices of all interactional and interactive metadiscourse devices, meanwhile *boosters* are another ranking metadiscourse devices (cf. Hyland, 2005). Hedges and boosters are two metadiscourse devices functioning under the scope of decreasing or increasing the authorial judgements. Whereas hedging devices (e.g. *may, could, probably*) have a function of mitigating the authorial stance, boosting devices (e.g. *certainly, must, totally*) function reverse by intensifying the authorial involvement through *certainty markers, emphatics, and intensifiers*.

As aforementioned, the other important argument that generates quite a ripple in linguistics and language teaching is the issue of collocation, which is related to the possibility of occurrence of generally two or more words in syntactic or lexical relations. Even if it seems to be a novel term, the importance of collocation in order to be seen native-like speaker of a target language for foreign language learners was underscored in a date that backs to 1930s.

In the present doctoral dissertation, in order to have native-like scholarly writing, three crucial linguistic titles –namely collocations, hedges, and boosters- were investigated from the aspects of native (NWs) and non-native academic writers (NNWs) of English. Furthermore, as well as putting forward the similarities and differences, some aspiring suggestions regarding the use of collocations, hedges, and boosters were suggested for non-native writers of English, which will hopefully help for more natural-

sounding and lexically more productive academic writings. Finally, lists of collocations, hedges, and boosters were created to present into the disposal of NNWs for a more native-like fluency in academic writing.

1.1. Statement of the Problem

In order for a discourse to be considered academic, a writer should care for every point meticulously not to miss even the most trivial detail. The place at which writing has been located for academic life is the very heart but nowhere else. The common notion concerning the place of writing in academic life, by all accounts, urges academics on not to overlook any bits with regard to the impeccability of their academic writings. Assuredly, the English language, outstretched its Anglophonic borders long ago, ceased to be a national language and has got under way its pervasive journey from the smallest communities to the biggest ones, leaving very few intact (Yağız & Demir, 2015). This uncontrollable transmission of English language in academic sphere has been unavoidable for academics to develop their writing skills in English in order to be able to make their presence felt in academic world. However, while the skill of cogently writing in L1 poses a trouble for academic scholars, the trouble in L2 writing is an extra challenge for non-native writers. Producing texts suitable for academic genre is absolutely not a unilateral process but a sophisticated one. Apart from the wellorganised structure and novelty of a writing -which can be summarized as 'complexity, precision, objectivity, responsibility, accuracy, explicitness, and formality-, an author has many other conventions to keep in mind as well as challenges to deal with. That is why, unsurprisingly, academic writing at an advanced level has been a challenge for both native and non-native speakers of English (Yağız, Yiğiter, & Genc, 2009). Establishing arguments, paraphrasing, consciousness on the test itself such as eliminating redundant words and rearranging sentences, grammatical conventions like active&passive voices, rhetorical situations, *intertextuality*, and etiquette are only some of the basic components that should not be dismissed from mind in the course of academic writing. Therefore, writing as a multidimensional ability does not require any evidences, which is blatantly obvious. Beside other things, the last but definitely not the least challenge with scholarly writing is the issue of vocabulary because a writer needs to have a reasonable lexicon in mind; active lexicon, not passive.

Of many conventions of writing, vocabulary has been an issue notoriously known by the researchers studying Second Language Learning (SLA). The significance of vocabulary was underscored by Harmer (1991, p. 153); 'If language structure makes up the skeleton of language, then it is vocabulary that provides the vital organs and flesh'. Furthermore, the importance of vocabulary for writing proficiency has given rise to many large-scale empirical studies which establish a link between vocabulary and writing, and there seems no sign of tapering off. Any error or misuse in vocabulary use would not be acceptable in academic world; as stated by Santos (1988) seriously unacceptable. Therefore, there is a strong relationship between vocabulary knowledge and academic writing. As time went on, the relationship was studied under the term of 'lexical proficiency'. Olinghouse and Wilson (2013) correlated vocabulary and writing quality in their study, and struggled to draw attention on the importance of lexical proficiency for high quality academic writtings.

On the top of vocabulary knowledge, the competence of how to use vocabularies appropriately for the content is a skill to be gained. Through lexical competence a writer conveys meaning to the audience, interacts and influences them. Therefore, the composing process of a text is a preliminary scene on which a writer shows off all the competence s/he has. In a study, Raimes (1985) observed that both skilled and less skilled writers were distressed about getting down their ideas on paper, in particular because of lexical competence concerns. This means that the issue of lexical proficiency is not limited to NNWs but NWs as well. Furthermore, a study (Santos, 1988) in which 178 professors were interviewed showed a strong correlation between academic writing and lexical error. According to Santos' findings, professors believed the gravest complication with academic writing was lexical errors. Of the forerunners of SLA, Laufer and Nations (1995) emphasized the significance of vocabulary for scholarly writing by correlating effective composing with effective vocabulary use: "a wellwritten composition, among other things, makes effective use of vocabulary" (p.307). However, the question of ' how a writer, particularly non-native, should use vocabularies in an effective way' is still suspended.

Lexical proficiency can be measured by examining different linguistic fragments in a text; verbs, modals, adjectives, adverbs etc. However, linguistic literature highlights discourse features rather than semantic or dictionary meaning of vocabularies. A number of studies indicated that writers who possess discourse knowledge of vocabularies are claimed to compose more efficient and persuasive texts than those who lack the competence of discoursal use of vocabularies (e.g. Benton, Corkill, Sharp, & Khramtsova, 1995; DeGroff, 1987; Langer, 1984; McCutchen, 1986; Olinghouse & Graham, 2009).

Beyond lexical competence, the proficiency of using vocabularies in a way to persuade the readers is another salient issue that has been studied under meta-discourse. Of discourse devices, hedging and boosting are two vital rhetorical devices examined from different aspects. They are used either to mitigate the meaning or to increase credibility. Hedging is "vitally important" (Salager-Meyer, 1994) for academic writings. Either you use it to distinguish facts from opinion, or "honesty, modesty and proper caution" (Swales, 1990, p. 174), hedging has undoubtedly been an important issue for all levels of academic writing. In a study investigated the hedging tendencies of nonnative writers in research articles, Hyland (1996) concluded that non-native writers of English find using hedges "extremely troublesome" (p. 278), which may end up with a hindrance to their participation to research world dominated by English. While the importance, even requisite, is readily apparent, authors' use of hedging devices still needs to be investigated particularly in terms of nativeness of writers (Yağız & Demir, 2014) because in non-Anglo-sphere academe rhetorical persuasion does not connote hedging necessarily, and hedging the statements or claims is not an obvious consideration for many non-native writers (Hinkel, 2004) when compared to native writers. While underuse of hedging may lead to overstatement and criticisms, overuse of hedging may bring about suspicions on credibility of the claims that writers have. Therefore, hedging is an issue to be used temperate and carefully by authors, particularly by non-native ones.

The other metadiscourse device 'boosting' can be much more troublesome for academics when compared to hedging. Because it creates an emphatic impression in the reader, it should be included in scientific articles meticulously not to lead any misconception or hyperbole. As stated by Hyland (1998), there needs to be an equilibrium concerning the amount of boosting devices in academic texts. By overusing intensity markers, it is possible to create a counter-effect on reader and reduce the credibility of the statements because much evidence would be needed to cover too assertive or challenging stances. On the other hand, through precise use of boosting the writer may have the chance of persuading the reader into acceptance of his/her claims. Furthermore, boosting, together with hedging, may function as a speech act, and may be effective in creating illocutionary force by increasing or decreasing the strength of the statement (Holmes, 1984). Therefore, indeterminate knowledge of boosting will undoubtedly be a shortcoming on behalf of writer. Hinkel (2004) claims that non-native writers avoid including metadiscourse devices --hedging and boosting-- in their research articles. That may prompt inadequate metadiscourse devices, and consequently, ineffective research papers in terms of readers. Briefly, boosting is a device from which many non-native writers refrain unintelligibly.

Lexical productivity, in terms of boosting and hedging diversity, is another issue that this dissertation will deal with. Lexical diversity has been investigated heavily in psycholinguistics and applied linguistics (Dewaele & Pavlenko, 2003). There seems to be little doubt that lexical diversity, often connected to language proficiency, is seen as a sign of lexical competence by many journal editors and readers. The linguistic literature shows that native writers use more vocabularies than non-native writers, which proves the superiority of native writers in terms of lexical diversity when compared to non-native writers. There is no doubt that, to a marked extent, lexical diversity is considered as a richness for quality writings, hence should not be overlooked while composing a written product. Accordingly, lexical diversity has been regarded as an illuminative predictor of writers' language competence and an essential indicator of the quality of their writing (Guoxing, 2009). However, lexical diversity is still a daunting issue to be dealt with from non-native writers' perspective immediately. The disadvantage of lexical diversity may be because non-native writers either do not have sufficient lexical knowledge or they have not encountered the vocabulary already; both of which may be the reasons of not enhancing lexical diversity.

Some studies establish a link between collocation knowledge and lexical diversity (cf. Laufer, 2003), and further, they connect the link with more desired academic writings (e.g. Hyland , 2008; Durrant, 2009). However, collocation is a convoluted issue that requires a great amount of conscious attention. A great many of non-native scholars aspire to have native-like written productions, which would be impossible or at least too arduous with indeterminate knowledge of collocation because

native speakers of English use "ready-made chunks" (Robins, 1967, p. 21) while composing a text. In order not to produce a scientific paper with full of odd expressions, the writer should be aware of the importance of collocations that native writers of English heavily employ. But for that, non-native writers may produce inappropriate lexical bundles, which are deemed as incorrect language use (stylistic inappropriateness), and which are foreign to native writers'. As Fox (1998) reported, the main problem as regards producing odd expressions is of collocations, which is a rigour attempt for even very competent non-native writers. It is stated that collocational errors, among all errors types, are the most common errors done by non-native speakers (Gitsaki, 1999), and on account of that they should be extensively studied if writing fluency is demanded (Sung, 2003). Nation (1990), pertaining to low proficiency learners, stated that they have a tendency to "encode words in memory on the basis of sound and spelling rather than by association meaning" (p.3). The situation is not different for non-native writers. A paucity of collocational proficiency is associated with lexical proficiency of the writer. Similarly, collocations tie in with lexical development, notes Ellis (1996). Hence, the reason why non-native writers are not able to use collocations as proficient as native writers may be because non-native writers fail to correlate words on the basis of true and specific word partnership (Sung, 2003). Despite the obvious significance of collocations for scholarly writing and covetable need from the aspects of non-native scholars of English, it has not been studied in an exclusive way that will show the differences and similarities between native and non-native academics, hence will purvey valuable suggestions on how to use collocations in order

To sum up, writing is much more sophisticated than ever imagined because there are musts that the writer should keep in mind while composing a text; for instance, grammatical and linguistic features, rhetoric expressions, a great amount of lexicon, semantic and pragmatic usage of words etc. Therefore, while bracing for a writing task, the writer, like equation with multiple variables, should be all set to cover the loads that a writing task will impose on writer. When the difficulties of even a simple writing activity are considered, it will not be difficult to notice how much more an academic writing would pose a challenge particularly for non-native writers. As commonly known, academic writing will not put up with any error at all, especially lexical ones.

for more native-like written products.

Thus, non-native writers should necessarily have a high lexical proficiency if the demand is of scholarly writing. According to linguistic literature, the power of vocabularies lies behind their discursive power. In their articles and books, Hyland, Hinkel, and Skelton underscore the significance of two lexical metadiscourses: hedges and boosters. While Hyland (1998b) and Hinkel (1997) emphasized the importance of hedges in academic writings, Skelton (1997) mentioned about the essentialness of boosters. Careful, meticulous and appropriate use of hedges and boosters in academic texts may keep criticisms away from writers, and may increase persuasive power, hence, may have a persuasive effect on audiences. Nonetheless, as stated earlier, the issues of hedging and boosting still remain unclear, and do not get due attentions. Without hedging and boosting, the scientific papers of non-native scholars would have an impact neither on journal editors, nor on readers. As well as lexical hedges and boosters, collocations are one of the crucial lexical issues. As they are for L2 learners (McCarthy, 1990), collocation appropriacy is a troublesome process that non-native writers should go through for it is one of the important ways that takes NNWs to the ashore of being native-like, and any miscollocations can higly be considered as "a major indicator of foreignness" (McArthur, 1992, p. 232). To be able to have fluency and get rid of foreignness, non-native writers should adapt their stylistic appropriateness to the native writers'. In the thick of such a competitive academe, those who get the advantage of scholarly writing through efficient use of three irrevocable and substantial linguistic devices --lexical collocation, hedge and booster-- will have a more durable place in substantiation of their writings and in making their names in scientific world. A study comparing native and non-native writers' academic writings will be of great importance in two ways; one of which is to determine the possible differences between native and non-native writers in using lexical collocations, hedges and boosters, and the latter is to find possible solutions and suggestions.

1.2. Significance of the Problem

Three writing conventions -which are considered to be useful for writers in order to produce persuasive and efficient academic writings- will be discussed under three subheadings; (1) lexical collocations, (2) lexical hedges, and (3) lexical boosters.

While composing a text, words, more often than not, have an inclination of occurring in ready-made chunks (Kjellmer, 1987). Out of other ready-made chucks "fixed, identifiable, non-idiomatic phrases, recurrent word combinations" (Benson, Benson, & Ilson, 1986), collocations are lexical or phrasal structures being preferred unconsciously by native writers. The term 'unconscious' appears to be an outright expression because native writers have a lexicon of collocations stored intuitively. Therefore, they use word combinations, i.e. collocations, without making reference to memory through a conscious effort. On the other hand, the process of unconscious word combinations occurring in a native writer's mind does not function in the same way as it does in a non-native writer's mind. The collocational proficiency is generally a result of learning through a series of attentions or through interlacing different words creatively. However, the attempt to create a collocation which is not learnt from a native source often culminates in inappropriate collocations that are considered weird and peculiar by native speakers of English, which is a situation that is not behoved to an academic writer. The situation into which a non-native writer will fall due to inappropriate collocations is not a venial error that common readers or editorial readers will ignore easily.

Important for communicative competence, the use of collocations is not all the same; on the contrary, it changes depending on the environment that they are used (Partington, 1998). Therefore, a writer should be accustomed to the sphere in which collocations are used. For instance, an academic writer should have the knowledge of collocations that are common in his/her academic field. A study conducted in media or in other irrelevant contexts will not provide a reliable data on collocation attainment for other fields. For this reason, the problem of collocation of a non-native writer should be solved inside the sphere the writer is in. In brief, the problem is exigent, and warrants to be solved so that proper suggestions and pathways be presented for non-native writers. Another mainstream fact with collocation is the impact that it has on vocabulary acquisition. In that sense *Lexical Approach* of Lewis (2001) aimed to teach vocabulary on the basis of collocation. Opposed to individual items, this approach signifies teaching vocabularies in their ready-made chunks. It is seen that, in addition to the benefit of collocations in producing native-like expressions and word combinations in academic texts, collocations have a distinctive place in teaching vocabulary. The

aforementioned points reveal the necessity of collocations, specifically for academic text in order to cope with foreignness in expressions while a text is composed by nonnative writers of English. On the other hand, one other problem with collocations is that to what extent non-native writers access to formulaic language is not yet clear (Durrant & Schmitt, 2009). Kjellmer (1990) claimed that even advanced language producers tend not to know much about formulaic language and collocations, which is an unlike situation with native writers.

Another significant lexical conventions embellishing academic texts are discourse devices; namely hedges and boosters. The ability to use discourse devices is commensurate with language proficiency, or more distinctively, with the degree of nativeness in a language. For this reason, competence in using discourse devices appropriately is seen as a sign of nativeness in language use. To start with, hedging is generally used with a purpose of rhetorical persuasion. Slager-Mayer (1994) stated that hedging devices are "vitally important" (p. 241) in academe while Hyland (1994) drew attention to the importance of hedging by indicating the necessity of it in even textbooks on top of academic writings. In a later study, Hyland (1998b) placed hedges into the list of the most frequent features of a writer's perspective, with which the significance was embodied. The issue of hedging is of paramount importance in scientific papers due to the fact that it both acts as a face-saving strategy, and represents the certainty of the scientists' knowledge on the study field (Meyer, 1997). In addition, hedging devices, in English for Academic Purposes (EAP), have been identified as a basic unit of communication in research articles written in English (for example Adams-Smith, 1984; Hyland, 1994; Hyland, 1998; Hinkel, 2004). There appears to be no doubt about the significance of hedging in academic text. Nevertheless, Hinkel (2004) reports that nonnative writers are not as concerned as native writers in employing hedging devices in their papers. The paucity of hedging devices in non-native writers' papers is hard to explain through a reasonable explanation; while their importance is stark obvious as the figures of Hyland (1998b) showed. Hedging is reported to be critical for academic writings (Hyland, 1998b), and the question of 'why is that' with regard to the criticality of hedging for academic texts was explained by researchers who are in the vanguard in the field. The answer for Hyland (1998b) was the power of "speculative means"; i.e. to leave door ajar to the issues ending with weakness and indecision so that others will

have the chance of empowering the issues which cast doubt on full precision. To put it another way, complete precision of scientific statements cannot be invariably possible (Grabe & Kaplan, 1997). Therefore, redundant consistency on a claim may lead to criticism, counter-sayings and prolonged debates in opposition to the author. Yet, hedging has a positive impact on the readers if used prudently. Students who were exposed to a written document including hedges developed more positive attitudes than towards the texts containing fewer hedges (cf. Crismore & Vande Kopple, 1997). Therefore, possibly, it will not be too assertive to claim that the higher positive attitude from readers means the higher probability over the acceptance of authors' claim. On the other hand, excessive use of hedging devices in a text may create an adverse effect on the credibility of the claim, hence, on writer (Sanjaya, 2013). All discussed so far emphasises to the significance of hedging for authors writing academic texts.

Although hedging devices contribute to developing positive attitudes with the readers, overusing of them makes a counter-effect, and diminishes the credibility of the writer's claims. The use of hedges on *low level claims* will not help, even, will give rise to a backfire because it will be thought as if the writer did not have sufficient scientific knowledge on the issue being discussed. In sum, while the effect of hedging on readers is an accepted truth, excessive self-effacing will clearly be insufficient to persuade readers (Myers, 1985); then it will harden to evidence the writer's maturity over the discussion point; and ultimately it may occasion a grave failure in accomplishing the purpose of the written work. Therefore, a writer should be balanced in using uncertainty markers; hedges, and instead s/he should use some degree of certainty markers when needed. From this vantage point, it is relatively easy to observe the fragile equilibrium between hedging and boosting.

It is often claimed that non-native writers avoid being assertive in their scientific papers, which leads to invisibility of authorial stance over their claims. The shadowy position of a writer in a scientific text may be deemed as a sign of the writer's indeterminacy over the discussed issue, and thus, the lowering credibility may prompt lack of confidence or doubt in readers. That inescapable conclusion is, out of doubt, undesirable by the writer whose primary aim is to persuade the reader on his/her claim. As in hedging, there should be an equilibrium between overuse and underuse of boosters in academic writings. Whereas underuse of boosters in a scientific text may cause some credibility problems, too many of them, particularly on *high level claims* may lead to much more trouble from the writer's aspect. It is a truth that boosters in a text represent for the writer's self-confidence with respect to the plausibility of his/her statements (Holmes, 1982). However, over self-confidence does not raise the prospect of credibility; to the contrary, it creates a suspicion in readers' minds about factuality and trueness of the utterance. For this reason, as well as its benefits, a boosting device is not released from jarring effects.

Non-native writers are in a better position in publishing articles in international journals when compared to the past. It is not uncommon anymore to encounter a non-Anglophonic name in the author indexes of English medium international journals. Although Swales (1987) argued that non-native speakers' publications in ostensibly international journals were once scarce, recent researches show that there has been a significant increase in NNWs' article submissions to English medium journals in the last years (Buckingham, 2008). Despite the recent numerical developments of NNWs' scientific articles on international level, non-native researchers are still at the back rankings, especially in social sciences, which require a more elaborate language competence.

Briefly, as never before, linguistic literature and prominent researchers in ELT have built a consensus on significance of three lexical conventions for a more complete academic writing, and have mentioned infelicities that a writer with indeterminate competence on these lexical conventions will take on in scientific world. In academic written discourse, the precise use of rhetorical devices like hedging and boosting are of great importance in order for persuasiveness of the paper and credibility of the claims that a writer put forwards in his/her study. Whilst hedges and boosters make contributions to the stylistic appropriateness of a paper as well as its persuasiveness, the other crucial convention, collocation is an absolute must for non-native writers in order to have native-like fluency, and to eliminate foreignness and odd expressions in their discourses. Fillmore (1979) argued that the source of fluency in a language comes from the knowledge of how to associate words in collocations adequately. Therefore, any indeterminacy with these conventions may give rise to unenviable corollaries from the writer's aspect. Briefly, the competence of collocations, hedges, and boosters lays the foundation for not to have a breakdown in academic writing.

1.3. Purpose of the Study

The general purpose of the present dissertation is three-fold: (1) statistical investigations, (2) descriptive investigations, and (3) pedagogical implications.

The first objective was achieved through making comparisons between NWs and NNWs of English in terms of employing lexical collocations, lexical hedges, and lexical boosters from the discipline of ELT. In this fold of purpose, this study largely meant to elicit the similarities and differences between research articles of native and non-native writers of English. Because both similar and different occurrences apropos of employing lexical collocations, hedges and boosters in two groups of research articles were sure to be detected, whether differences -the rate of deploying lexical collocations, hedges and boosters - were statistically significant or not were investigated. Due to the fact that collocations, hedges, and boosters have a large scope of research and content field (for example grammatical, phrasal etc.), the present study investigated only their lexical forms so that more specific and detailed result could be obtained.

The second purpose aimed to shed light on how native and non-native writers of English deployed lexical items. More specifically, the common patterns regarding the use of lexical collocations, hedges, and boosters of native and non-native writers were investigated. At this point, the typical investigation questions were 'to what extent each lexical hedge and booster was employed'; 'were there any common patterns of lexical collocations, hedges, and boosters between NWs and NNWs'; 'what are authentic examples used in the corpora'; and 'whether or not native writers were superior than non-native writers in terms of lexical diversity'. Lexical diversity superiority is of significance because it is seen as an indicator of richness of the content and showcase of the writer by a great number of readers. That is why academic writings with a high lexical diversity. Therefore, by providing some window on the issue through findings, some awareness and aspiration regarding the importance of it may be evoked with nonnative writers.

The last aim of the present dissertation attaches particular importance to nonnative writers of English. Content analyses carried out across the corpora propose a list of collocations which native writers included in their research articles. To be more specific, it is aimed to put collocations constructed by native writers at non-native writers' disposal. Thanks to the collocation list gathered from native writers' academic texts, non-native writers of English are going to have an opportunity of reaching to disparate word combinations, and native expressions. In addition to the list of collocations compiled from native writers' research articles, I built up lists of hedges and boosters after a series of intensive dictionary scanning, which will be of utmost benefit for particularly non-native writers. That non-native writers have a chance to access to a vast variety of hedges and boosters thanks to the list the present study offered will deliver an opportunity for NNWs in terms of scaling up hedge and booster diversity, which may put an end to parochial academic papers of non-native writers from the aspect of lexical productivity. Ultimately, it is aimed to present three lexicon lists (collocations, hedges and boosters) for NNWs, and the lists which were created in the present dissertation are hopefully expected to be used in NNWs' prospective studies, and to function as a preventive shield against erroneous lexical use in the target language. In this connection, NNWs will have an invaluable opportunity in diversifying their lexical richness in their academic papers, in lowering foreignness in their scientific writings, and hence, in raising the prospect in creating native-like academic texts.

The present dissertation is home to varied purposes. It aims:

- to find out whether there are similarities or differences between NWs and NNWs in terms of using lexical collocations in their academic works;
- to investigate whether there is a statistically significant difference between NWs and NNWs in terms of lexical collocation frequencies;
- to provide NNWs with an academic word list of collocations that NWs included in their studies;
- to find out whether there are similarities or differences between NWs and NNWs in terms of including lexical hedging and boosting;
- 5. to find out whether there is a statistically significant difference between NWs and NNWs in terms of lexical hedge and booster frequencies;

- 6. to provide NNWs with an academic word list of hedges and boosters;
- 7. to provide NNWs with suggestions with regard to the use of lexical collocations, hedges, and boosters in order to have native-like scientific texts.
- 8. to help NNWs construct their articles through the academic list of hedges and boosters which were gleaned from different sources thanks to the present study.
- to raise awareness of collocations, hedges, and boosters which are dominant language components in academic society, hence, to provide beneficial additional opportunities in enhancing NNWs' writing quality.

1.4. Significance of the Study

As mentioned before, the primary purpose of the present study is to help nonnative writers achieve native-like scientific writings. Academic writing is a multidimensional and sophisticated issue, therefore, infelicities with regard to it cannot be thoroughly worked out in a unique study. Keeping all under consideration, the present study aimed to help non-native writers effectively use collocations and two rhetorical devices; hedging and boosting, in their writing.

One of the common features of poor writing among non-native writers described by Hinkel (2003) is vague constructions. Unless an author overcomes vague constructions in his/her scientific writings, it will be all but impossible to have nativeness in a language. Collocations are in the front rank that occurs in mind if one talks about vague expressions (cf. Hinkel, 2003). Therefore, they are regarded as a salient component of fluent linguistic production. Hyland (2008) summons collocations as "bundles, chunks or clusters", and consider them crucial in contributing to our sense of coherence in a written product, and hence, in shaping the meaning. Another remarkable point in Hyland's research is his claim that collocations are more common than expected by chance. Similarly, Lewis (1997) calls for attention to the fact that collocations "co-occur naturally with greater than random frequency" (p. 25). What Hyland and Lewis said can be understood in a way that collocations are not accidental or unintentional word combinations but knowingly and wilfully. Therefore, it will not be incorrect to express that collocations are structures-aware employed by writers. So far, it has been forthrightly voiced that collocations are learnable and intentional word combinations. What has been told germane to learnability and consciousness of collocations should not be understood as a piece of pen-and-paper. Any simplification

pertaining to collocation use in scientific writings will definitely be a faulty step because they are much more complicated than expected. While lexical bundles in a native writer's mind are well-linked and easily retrieved (Aghbar, 1990), a non-native writer is, out of question, in trouble with them because of his/her insufficient knowledge and lack of awareness of collocations. This deficiency and unawareness prompts inappropriate word combinations and accordingly odd expressions in non-native writers' academic writings, which is a case that would not behave to a scholar. Up until now, it has become overt that native and non-native writers of English are not on equal footing in the process of composing. Because of that, NNWs are not on par with NWs. While NWs have intuition for word partnership, NNWs do not have. On the other hand, Hyland and Lewis have captured non-native writers' imagination by expressing that the intuition for collocation is not something that is inherited; on the contrary it is a learnable linguistic component. But the question is "how such a intrinsic, mostly intuitively learnt thing could be learnt by someone else outside the sphere of being native speaker?". That is the outright question, the answer of which is curiously being longed by non-native writers. Through the present study a list of collocations is going to be constructed from the corpora of native writers' academic texts, and put into service of non-native writers. That may not be a natural way of acquisition, but thanks to the list, it is hoped that non-native writers will find a chance of seeing collocations that native writers use, and accordingly invigorate their academic texts by including the proposed collocations in the list. Also, as time goes on, it is presumed that the collocations on the list will be employed by non-native writers and they will partly become intuitive. What is noteworthy and unique regarding the list that the present study compiled is that the linguistic literature has not offered such a huge list of collocation so far.

Having completed qualitative content analyses, all collocations that native and non-native writers had used were listed. The listing of collocations which belong to both groups of writers is necessary in order to make a statistical analysis. Even if you make a small literature review, a great many of comparative studies will welcome researchers because conducting comparative studies is such a widespread habit among researchers. As regards the significance of comparative studies, it can be said that they are required in order to comprehend quantitative superiority of one group over another. Accordingly the present study compared and contrasted native and non-native writers. This is crucial in order to find out the similarities and differences between two groups of writers. Through comparing and contrasting a reader can gain some advantages and opportunities, some of which can be summoned as; deeper understanding of the items being studied, focussing more easily on argumentative issue of the study, constructing further connections between texts or ideas being compared or contrasted, and deciding on the better choice while making a selection or giving a decision. Accordingly, because the present study makes a comparison and contrast, it is essential in providing data on similarities and differences between NWs and NNWs of English. Due to the fact that no studies studying English lexical collocations together with lexical hedges, and boosters among Anglophonic and Turkish authors are available so far, this study will be unique with these scope of aims.

As stated at the beginning of the title, apart from lexical collocations, two rhetorical devices were investigated in the study. Thanks to the recent studies, researchers are aware of the fact that rhetorical dimension of a scientific writing is as important as actual content (Flowerdew, 2000). In order for an academic persuasion and interpersonal negotiations between a writer and a reader, successful discursive practises through employing rhetorical devices are of greatly essential. Among all rhetorical devices (bare, hedge, booster, vague stance, and reader-inclusive) that lay foundation for an authorial stance, two types of linguistic resources -hedges and boosters- proved their strength in convincing the readers and in affecting their postures to the subject matter handled in the text (Crismore & Vande Kopple, 1997). In the event of specialised articles written in English, "rhetorical awareness" is referred by Swales as "being able to guess how referees will react to a particular text", and he continues that "a phenomena only acquires fact-like status by consensus and that consensus may not be achievable without rhetorical persuasion" (1990, p. 112).

Last few years have witnessed the soaring intention to communication devices in academic papers, one of which is indispensably hedges. It is widely known that hedging devices are fundamental in academic texts (Hyland, 1998b) because full precision with a scientific statement may not always be possible (Grabe & Kaplan, 1997). Despite the criticality of hedges for academic writings, non-native writers do not use as many hedges as native ones do (Hinkel, 2004), and Turkish authors are not an exception (cf.

Yağız and Demir, 2014). There could be two reasons of why Turkish authors do not use as many hedges as their native counterparts: They either have insufficient awareness of hedging or do not have lexicon of hedges to a certain degree. This study is of importance in investigating hedge frequencies of Turkish authors and Anglophonic authors through a large corpus. The large corpus of this study will contribute in generating an idea on understanding to what extent Turkish authors use hedges in their scholarly writings when compared to Anglophonic writers. Descriptive findings of the present study are important in two ways: (1) in order to gain an insight on numerical superiority of the writer groups and (2) in order to provide a source for further and prospective researches. In addition, this study compiles three lists of hedges belonging to (1) Turkish authors, (2) Anglophonic Authors, and (3) lexicographical ones. Thanks to the first two lists, the reader finds the opportunity of comparing and contrasting Turkish and Anglophonic authors on which hedges they tally with or differ from one another. The last list was compiled in consequence of arduous scanning of various advanced dictionaries and thesaurus (Collins, 2006; Cambridge, 2008; Hornby, 2011). The scanning have delivered up a large number of hedges that can be utilized by particularly non-native writers while composing their text, through which they are going to have a chance for expanding their lexical diversity. As indicated before, the paucity of hedges in non-native writers' scientific text could be due to the writer's lack of awareness on hedging or lack of hedge lexicon. Thanks to implications that this study will suggest, writers' awareness the on importance of hedges in their academic writings is going to be endeavoured to enhance; meanwhile, lexical hedge list gleaned from various dictionaries is going to let non-native writers notice myriad hedges existing in English. At the very last, lexical productivity of non-native writers in terms of hedge diversity is assumed to broaden.

Boosting is the other subject discussed in this study. Academic papers should include boosting devices to some extent in order to "boost the illocutionary force of the speech act asserting the proposition, expressing great certainty or conviction concerning its validity" (Holmes, 1984, p. 348). Therefore, boosting devices should not be ignored by writers if the ultimate aim is to persuade the reader. As with hedges, boosters employed by NWs and NNWs were investigated, and then similarities and differences were provided. From linguistic data aspect, to endow the literature with that type of descriptive data will be of service as a reference point or for further and prospective studies. Another thing that is surely to the good for particularly NNWs is the boosters list. As constructed with hedges, a list of boosters was compiled after a thorough scanning of reference dictionaries. The existence of a boosting lexicon in the linguistic literature is going to categorically offer an advantage for NNWs to achieve communicative competence by enhancing their lexical diversity. It is expected a carpenter to have lexical competence, and include lexical diversity while describing a piece of wood because it is his area of specialization. From all accounts, when seen in this light, the same expectation is for a writer as well since academic writing is a scholar's area of expertise.

Concisely, the three lists constructed in this study are going to be purveyors of lexical productivity and diversity for NNWs. By virtue of collocation list compiled from native writers' corpora, NNWs are going to dispose of foreignness imprints, and become more native-like. Under favour of hedge and booster lists gleaned from various dictionaries, NNWs are going to expand their lexicon of hedges and boosters; hence, they are going to widen their lexical richness, which is a sign of nativeness. What is an established fact is that NNWs are in the rear of NWs in terms of lexical variety (cf. Sanz, 1999; Schneider, 1999). Furthermore, by means of hedge and booster lists, the writer, lexically, is going to have more expressing power to effectuate the illocutionary force over the readers.

1.5. Operational Definition of Terms

Some definitions of operational terms frequently used in the present study were explained, and the terminological list was arranged in alphabetical order as follows:

Academic writing

Academic or scholarly writing is the process of using deductive reasoning, breaking down ideas according to the speciality of the topic, using the formal voice, and keeping neutrality. It is about what you think and what evidence has contributed to that thinking. Of broad panorama of L2 writing, writing in the academic disciplines is constructed in a different way than other types of writing genres like free writing, fiction, or personal report (Yağız, 2009) because it requires much more attention, care, content-knowledge, citation, and linguistic competence. By many non-native scholars of English, it is a

daunting issue due to the fact that there are numerous underlying subjects in mind to deal with; for example, the genre of the writing, purpose of the study, message transmission way, context, audience, linguistic challenges etc (cf. Irvin, 2010).

Awareness

With linguistic definition, it is the state of being aware of a linguistic structure whether context-dependent or context-independent. For instance, lexical awareness means that the person who is addressed to has knowledge of some specific features of the lexis; language awareness refers to the improvement in language users of an expanded consciousness of and sensitivity to the structures, functions and forms of a language (Carter, 2003). Therefore, depending on the context in which it is used, the meaning gains an enhanced sphere of influence.

Boosting

A linguistic device which is used to show full commitment of the writer in an attempt to persuade the reader over the claims or statements; put it differently, "the linguistic means expressing intensification of the illocutionary force" (Sandova, 2011, p. 170). Boosting and its sub-categories are called by a various number of researchers; as "up-graders" (House & Kasper, 1981), "strengtheners" (Brown & Levinson, Politeness: Some universals in language usage, 1987), "intensifiers" (Quirk, Greenbaum, Leech, & Svartvik, 1985), "commitment" (Vassileva, 2001), "certainty markers" (Rubin, 2010), "accentuation markers" (Urbanová, 2003), and "amplifiers" (Xiao & Tao, 2007). *Certainly, totally, always, no doubt etc.* are only some examples of boosters.

Collocation error

Collocation errors refer to mis-collocations which violate the co-occurrence restriction (Cruise, Language, meaning and sense: Semantics, 1990). Examples of such lexical collocation violations include *hot regards* or *hearty regards* instead of *warmest regards* (Benson, Benson, & Ilson, 1986).

Collocations

With an early description -though there exist disparate descriptions- collocations can be shortly defined as two or more words that have a high tendency to occur together (Halliday, McIntosh, & Strevens, 1964): for example, set an alarm, alarms ring, intimately acquainted, make an impression, etc.

Competence

A thesaurus dictionary (Collins, 2006) will give you the synonyms of "competence" as *capability, ability, capacity, expertise, skill.* Therefore, it will not be incorrect if it is defined as "capability in doing something accurately and suitable to certain criteria". For example, lexical competence refers to having more knowledge on lexis and the ability to utilize them appropriately while communicative competence may be referred to the skill of making a contact with the interlocutor in a successful way.

Foreignness

The characteristics of foreignness in a language are the notions that are mostly noticed by native speakers of the language. Ehlich (2009) describes foreignness in language as proximity differences, false friends, and degrees of distance constitutive. As for me, foreignness is "linguistic infelicities that execute as semantic and cognitive stimulants in a reader's mind against the writer's competence", and hence, adversely affect the readers toward the content of the text.

Hedge

Hedges, which are called by different names, include any linguistic devices employed to indicate a lack of full commitment to the value of an accompanying claim; or the wish not to articulate the claim categorically (Hyland, 1998b). Recently, it has been mentioned about *cautious language* that is positioning yourself under varied disguises like referring to someone else while presenting a claim or reducing commitment. Some common examples of hedges in scientific writings are *generally, numerous, often, to appear, to predict, almost etc.*

Lexical diversity

Lexical diversity, which was frequently linked to productivity, is evaluated through a type-token ratio which is a measuring technique conducted through the comparison of the total words number (tokens) with the number of different words (types) (Dewaele &

Pavlenko, 2003). What it means more specifically is that the more different words you use in a writing, the higher lexical diversity you will have or vice versa. Authors largely raise lexical diversity in their academic writings by containing synonyms or antonyms instead of repeating the same vocabularies.

Lexicon

It is the knowledge of lexical categorization and appropriate use of words that a speaker knows about. It is a mass noun, therefore, the term covers semantic, pragmatic and other associational knowledge of vocabularies that exist in a speaker's mind. For example the statement *hedge lexicon* in this study denotes all active hedges and their knowledge of usage in the speaker's mind.

Mis-collocation

Same with collocation error.

Nativeness

It is a situation in which a speaker is accustomed to the nature of linguistic components of a language in all rounds. Nativeness includes successful word combinations, pragmatic and prosodic features of the language. Right opposite meaning of "nativeness" is "foreignness". In the linguistic terrain of academic writing, the nativeness paradigm has constructed a binary classification of speakers: native speakers and non-native speakers (Brutt-Griffler & Samimy, 2001). As of now, it is a term that has been used mostly in the ELT profession rather than other academic disciplines.

Native writer vs. Non-native writer

The native/non-native issue is controversial from a sociolinguistic perspective and it is equally at issue from a purely linguistic point of view (Medgyes, 1992). To evaluate a native writer from the aspect of competence will not be a reasonable and true way of judging because it is possible for a non-native writer to be as competent as a native writer in terms of linguistic components. Therefore, a native writer can be defined as the one whose mother tongue is the same with the language of the written products while it is L2 for a non-native writer. Shortly, first language acquisition may be the selection criterion to determine the nativeness of a writer.

Proficiency

With a glossary meaning it can be defined as a high degree of skill. In this study, phrases like "lexical proficiency, language proficiency, boosting proficiency etc." can be turned up. The term has a broader meaning when compared to the term "competence" because it covers knowledge, fluency, accuracy, discursive strategies, and all other linguistic skills when used in the field of ELT.

Research article

A research article is a scientific writing that is usually composed of a summary of the whole research "abstract"; a description of the research "introduction"; "methodology"; "results"; "discussion"; "conclusion"; and if any, "suggestions". It is hard to find basic summaries or general introductions to the topic in research articles (Texas, 2015). Research articles are much more original than any other writing types thanks to their topics to investigate, methodological otherness, findings or other metafunctional components.

Rhetoric

It is a stylistic linguistic component that studies argumentation and discourse styles of a writer or speaker in order to persuade, motivate or inform particular audiences in certain situations. It has a vast scope of study, and is used in a multitude of different applications ranging from literature to architecture (Vickers, 1995). The study of rhetoric trains learners to write effectively, as well as to critically understand and analyze discourse (Smith, 2011). This study will investigate two sub-components of rhetoric: hedging and boosting.

1.6. Limitations of the Study

Hedging shows variance depending on the context it has been used. In other words, hedging and other features of opinion positioning (like boosting) are said to differ across disciplines (Hyland, 2005b). Therefore, the present study compiled a corpus of only ELT research articles; otherwise cross-disciplinary corpora could spoil the reliability of the study.

This study investigated collocations, hedges, and boosters from lexical aspect. However, there are other aspects of collocations, hedges, and boosters: for example syntactic markers like *passive voices* and *if conditionals* are common hedging devices, therefore, could be investigated. Furthermore, phrasal boosting constructions are certainly not rare in the written literature. "Grammatical collocations" (Granger & Paquot, 2008) *-verb+preposition, adjective+prepositions-* are one of two collocation types being widely used in linguistics. It seems that collocations, hedges , and boosters are the issues within a vast sphere of study area. Therefore, it needs to be clarified that the present study decided to examine collocations, hedges, and boosters only from lexical aspect, in the opposite case the research area for the present study would be too large to obtain stable and specific results.

Cross-cultural research in using rhetorical devices like hedging and boosting has a significant place in order to find out intercultural communication and socio-pragmatic variations among different communities. Accordingly, in the genre of academic discourse, the issue has been studied sizably. Yet, the present study has nothing to do with socio-cultural differences in using hedges and boosters because it is a descriptive study. This study investigated hedges and boosters by the way of linguistics and illustrations. To briefly state, any results regarding cultural background of NWs and NNWs were not provided in this study.

This study investigated articles only in the field of Language Teaching. Other than inter-disciplinarily as is in the present study, collocations, hedges, and boosters are three important writing conventions which can be examined cross-disciplinarily. Crossdisciplinary studies could provide a result of vast information on disciplinal differences in using collocations, hedges, and boosters. However, it may harden to evaluate the results, and hinder to suggest reliable pedagogical implications for NNWs.

1.7. Framework of the Study

This dissertation is composed of five chapters; namely (1) Introduction, (2) Literature reviews, (3) Methodology, (4) Results, (5) Discussion & Conclusion. This chapter includes the purposes of the study, definitions of terms, and discusses the statement of the problem, the significance of the problem, and finally significance of the study. In the content of chapter one, the reader shall find the significance of collocations, and rhetorical features of hedges and boosters in scholarly writing. In addition, chapter one attempts to construct a reasonable base-line on why the issue should be studied.

Chapter two presents a complete literature review and theoretical framework scanned and adopted for the present dissertation. Chapter two begins with some detailed definitions of the discussed issues in the study. Some literature review on academic writing and academic writing challenges follow definitions. Then, former studies bound up with the discussed issue of the present study are summoned under associated subtitles in order to allow reader to see the studies in the literature that are at variance and in congruent with the present study in terms of size and scope, purposes, and pedagogical offerings. Terminally, after presenting studies conducted so far regarding the use of lexical collocations, hedges, and boosters, some theoretical explanations, which make the present study unique and distinctive, have been provided in this chapter.

The methodological design descriptions are in the chapter three. The size of the corpora and how it was built are disclosed in this chapter. Apart from that, the chapter presents identifications of linguistic devices and how the data analyses were done; that is, into which categories lexical collocations, hedges, and boosters were divided. Also provided in chapter three are information on data analyses and research instruments.

Chapter four is the place in which the reader may find the detailed findings of the study. The findings for the use of lexical collocations, hedges, and boosters by NWs and NNWs are presented. Some comparative and contrastive statistical analyses were conducted, and as consequence, quite a few significant tables and figures were delivered cautiously. Frequency distributions of lexical collocations, hedges, and boosters were also yielded in this chapter. Furthermore, after a series of statistical analyses, whether there were any statistically significant differences between NWs and NNWs in terms of use of lexical collocations, hedges, and booster were elucidated in that chapter. As last, the chapter presented the lists of lexical collocations, hedges, and boosters that the NWs and NNWs used in their research articles.

Discussion and conclusion part of the dissertation built the fifth chapter. The findings were organized in a way appropriate to the literature, to theory, and to practice. The research questions posed in the introduction were answered, and the hypotheses were tested. Furthermore, the findings were related to the literature and expectations through former studies. Regardless of whether or not the quantitative results were statistically significant, all the results relating to the research questions were addressed. On the other hand, conflicting and unexpected findings were provided. Besides the chapter effectuated the core of the study. It summoned the whole study and principles implications of the findings, and then indicated about strengths and weaknesses of the present study. Also, the significance of the results and conclusions on their influence on our knowledge and understanding of the problem were examined. Chapter reached to the peak in importance with pedagogical implications on lexical collocations, hedges, and boosters in research article of NNWs, which was subsequently followed by some suggestions for further research. Furthermore, the chapters direct readers to the lists of lexical collocations, and lexical hedges and boosters that were gathered from the corpus of NNWs and different dictionaries, respectively.

1.8. Research Questions

The present dissertation primarily stays focussed on the contribution of lexical collocations, lexical hedges, and lexical boosters to non-native writers' academic writing development. Although specific research questions of the present study were delivered, it will be useful to indicate that the present study dedicated itself to a central research question; 'Do native and non-native writers of English employ lexical collocations, hedges and boosters differently in their research articles, if so, how should the findings be interpreted to be able to make suggestions to non-native writers in order to have native-like scientific texts?'. While native-writers are represented by Anglophonic writers, Turkish scholars represent non-native writers.

In total, there are twelve research questions under three different headings: (A) *lexical collocations, (B) lexical hedges,* and (C) *lexical boosters.* All the sub-questions were organized in similar ways because the purpose of the present study concerning each writing convention, namely *collocations, hedges,* and *boosters,* were not dissimilar in principle. The terms 'overall and separately' in the first questions of each heading

(A1, B1, and C1) have a meaning that interprets the corpora of the study. Lexical collocations, hedges and boosters are composed of varied categories; for example, while lexical collocations have seven major types (see 3.4.1.), lexical hedges and boosters have six sub-categories (see 3.4.2. and 3.4.3.). Therefore, the term 'overall' embodies the total of all sub-categorizations whilst the term 'separately' serves to represent each sub-category of the writing conventions. The second research questions (A2, B2, and C2) investigated the frequency of each sub-category of lexical collocation, hedges, and boosters, and those with the highest frequency were determined through quantitative analyses. The same research questions required to reveal an outcome pertaining to lexical variety. The first and second research questions may be seen as if they could be fended off, however they are convenient in order to provide a descriptive data that may hopefully be a reference point for prospective and further studies. Having been used appropriate statistical tests, the third research questions were answered. The statistical test results are of great importance in reaching to precise conclusions. Therefore, the third questions were answered after a series of statistical calculations, which were decided by evidences drawn from literature. The inclusion of last research questions (A4, B4, and C4) are purely pedagogical, which have a invaluable purpose of compiling pedagogically oriented implications from literature for non-native writers of English. For example, a finding discovered Turkish scholars' underuse of hedging devices or lack of collocations might mean that Turkish scholars need to consider to contain more hedges or need to pay attention to collocations in their scholarly writing if the authentic aim is to have native-like fluency.

In particular, research questions which were set out to answer through the present study were provided:

A. Research questions with regard to lexical collocations

A.1. Both overall and separately, to what extent do NWs and NNWs use lexical collocations in their RAs?

A.2. What are the most frequent pivot words in lexical collocations that NWs and NNWs use in their RAs?

A.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of lexical collocation frequency and collocation diversity?

A.4. What do the literature and research findings suggest about the use of lexical collocation in academic discourse?

B. Research questions with regard to lexical hedges

B.1. Both overall and separately, to what extent do NWs and NNWs use lexical hedges in their RAs?

B.2. What is the most frequent lexical hedge category that NWs and NNWs use in their RAs? Are there any differences between the two groups in terms of lexical diversity of hedges?

B.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of using lexical hedges?

B.4. What do the literature and research findings suggest about the use of lexical hedges in academic discourse?

C. Research questions with regard to lexical boosters

C.1. Both overall and separately, to what extent do NWs and NNWs use lexical boosters in their RAs?

C.2. What is the most frequent lexical booster category that NWs and NNWs use in their RAs? Are there any differences between the two groups in terms of lexical diversity of boosters?

C.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of using lexical boosters?

C.4. What do the literature and research findings suggest about the use of lexical boosters in academic discourse?

CHAPTER II

LITERATURE REVIEW

2.1. Definitions

Because collocations, hedges, and boosters are commonly used terms in this study, they were defined as following. The definitions belong to various researchers who studied the issue of collocation.

2.1.1. Collocation

Instead of sharing a single common explanation, the literature diversifies the definitions of collocations. It is understood that there are sub-categories of collocations such as lexical collocations, grammatical collocations, solid lexical collocations, and mis-collocations.

Collocations

- 1. A collocation addresses to syntagmatic relations, the meaning of which is not directly committed to the conceptual meaning (Firth, 1957).
- Collocations are two or more words occurring together with a strong tendency (Halliday, McIntosh, & Strevens, 1964).
- Contextually, collocations are appropriate forms of language. They have the power of specifying one another's occurrence (Kororsadowicz-Strazynska, 1980).
- 4. Because a collocation is a sequence of lexical item that occurs habitually together, it is idiomatic. Yet, there is a difference that makes a collocation different from an idiomatic expression, which is that a collocation is wholly transparent, and a semantic constituent (Benson, 1985). In another description of Benson (1985), it is stated that collocations in English are word combinations that are statistically more prone to appearing together than accidental chance.

- 5. A collocation is a type of semantic cohesion in which varies by the constituent elements in mutual degrees. The co-occurrence between lexical units in a collocational constituent may be strong or weak (Cruise, 1986).
- 6. A collocation is composed of two co-occurring words that are connected in a native-speaker's memory (Aghbar, 1990).
- 7. A collocation in English is described as a formulaic, prefabricated, and conventionalized combination of two or more words (Zhang, 1993).
- 8. The term collocation is utilized to show the repeated co-occurrence of lexical items (Martelli, 2006).
- Collocations describe a sequence of two or more words that are utilized by native speakers and indicate native speakers' capability of coining new words (Pahlavannezhad & Ebrahimi, 2012).

In addition to these definitions, Hausmann's definition (1989) deserves a distinctive place, because it provided an explanation of the constituent parts of a collocation. Hausmann introduced two terms concerning collocational constituents: *base* and *collocator*. While the base is the semantic nucleus, the collocator is the modifier of the base. For example, in a *noun+verb* collocation *a bird flies*, here what we are talking about is *bird*, which makes it the base. The verb *flies* is the collocator for providing information on what the bird does. In brief, collocations are two or more words with a high co-occurrence possibility, which are conventionalized in time due to frequent usage.

When the term "patterned speech" has been mentioned, it is almost certain that many fixed patterns are going to come to mind. These patterned speech includes (Becker, 1975; cited in Kennedy, 1990):

formulaic speech	(as a matter of fact)
prefabricated patterns	(that's a)
unassimilated fragments	("to meet you" as a greeting)
prefabricated routines	(how are you)
sentence builders	(that's a)
idioms	(kick the bucket)

clichés	(as a matter of fact)
lexicalized sentence stems	(as a matter of fact)
set phrases	(in brief; at the present time)
polywords	(the powder room)
deictic locutions	(as a matter of fact)
situational utterances	(I'm glad to meet you)
verbatim texts	(oozing charm from every pore)
phrasal constraints	(by pure coincidence)
non-canonical forms	(on with the show)
fixed phrases	(in brief; at the present time)

Although collocations include majority of the patterned speech, they do not cover all of them. For example, idioms are patterned speech that should not be merged with collocations. Therefore, every patterned speech must not be considered as a collocation which is "recurring sequences of words" (Kennedy, 1990, p.217).

Lexical collocations vs. Grammatical collocations

Collocations, which previously had been regarded as a single title, were divided into two as lexical and grammatical collocations by Benson, Benson, and Ilson (1986). Grammatical collocations include an adjective, a verb or noun, plus an infinitive, a preposition or clause. The patterns of a phrasal grammatical collocations form from a lexical unit and a pattern that specifies the sub-categorization property of the head (Bentivogli & Pianta, 2003). Similarly, verb+noun, preposition+noun, and infinitive verbs have dominant places in grammatical collocations, said Fontenelle (1998). On the other hand, lexical collocations, as stated by Bahns (1993), do not include infinitives, prepositions, or clauses; instead, various combinations of adjectives, adverbs, verbs, and nouns. Again, if compared to closed class structure of grammatical collocations, lexical collocations are composed of two equal open-class lexical items, and include no subordinate element (Fontenelle, 1998). This study investigated lexical collocations rather than grammatical collocations.

Solid lexical collocations

When compared to lexical collocations, solid lexical collocations are much more rigorous in constructing a lexical word combination. The term was first used in a dissertation titled "Personal Communication" in 2002 under Dr. Aghbar' advising (cited from Sung, 2003) to refer to sequences of lexical items that occur so repeatedly; and hence, the lexical combination gets a strong bound to each other. There is such a strong interconnection among lexical items in solid lexical collocations that the native speaker hardly considers them as separate items or free combinations. *High winds, acute pain, light drizzle* can be considered as examples of solid lexical collocations. The present study did not make a distinction between lexical collocations and solid lexical collocations.

Mis-collocation

As indicated earlier, mis-collocations, contrary to well-established collocations, are in contravention of co-occurrence restrictions (Cruise, 1990). Though, they are very prevalent in NNWs' writings. For example, a native speaker would say *the fast train; rancid butter;* or *a quick shower* but not *the quick train; rotten butter;* or *a fast shower.* Incorrect collocations are not acceptable in academic discourse at all, and they are regarded as "a major indicator of foreignness" (McArthur, 1992, p. 232).

2.1.2. Hedging

George Lakoff seems to be the first researcher who introduced the term *hedge* in linguistic studies. He defined hedges as follow:

For me, some of the most interesting questions are raised by the study of words whose meaning implicitly involves fuzziness - words whose job is to make things fuzzier or less fuzzy. 1 will refer to such words as 'hedges' (1973, p. 471).

After the introduction of hedging into Linguistics, the term immediately started to be used in pragmatics intensely. Then, Linguistics was introduced by *Politeness Theory* of Brown and Levinson's (1978), which is known as politeness strategies. Later, hedges came to be known as face-saving acts, and were analysed mostly in oral conversations (Iida, 2007) as well as in written products. Contrastive/cross-cultural analysis of hedges became influential in the early 1980s, and towards the end of 1980s hedges began to gain attention and ground in English linguistics and English for Academic Purposes (EAP). Meanwhile, Prince et al. (1982) introduced two new terms in association with hedges: approximators and shields. According to Prince et al., approximators are linguistic devices that "affect the propositional content, either by adapting a term to a non-prototypical situation, or by indicating that some term is a rounded-off representation of some Figure; shields are linguistic components that affect the degree and type of speaker-commitment that is inferred" (p. 93). However, it was not until Crompton (1997) mentioned about approximators and shields that they caught attention and became widely known in the area of Linguistics, and other language depended disciplines. He underscored the importance of distinguishing "shields" and "approximators" for academic writing education. Since the introduction of hedges to Linguistics and ELT, hedging has been an issue gaining popularity in especially Linguistics in the recent years. Many renown linguists including those in ELT and other language depended disciplines have studied the issue from various aspects. Some of the studies investigated cross-linguistic aspects of hedges while the others conducted crossdisciplinary or cross-cultural studies on hedging. Although hedging is a linguistic concept that evades itself any precise definitions, the rising popularity together with a great many of studies brought along new descriptions of hedging, which are as follow chronologically:

- 1. Hedges are words that contribute to the interpersonal function (Halliday & Hasan, 1989).
- 2. Hedging devices are not only statements that communicate voices but the author's attitude to readers as well (Halliday, 1978 cited in Hyland, 1998c).
- 3. Hedges are used to separate the facts or the real from opinions, or from "honesty, modesty, and proper cautions" (Swales, 1990, p. 174).
- 4. Hedges are linguistic components that are used to convey purposive vagueness and tentativeness (Salager-Meyer, 1994).
- 5. Hedges are items of language that speakers or writers use to obviously qualify their commitment deficiency to the truth of a propositions (Crompton, 1997).

- 6. Hedges refer to a group of devices that supposedly mitigate utterances by signalling non-commitment and imprecision (Dixon & Foster, 1997).
- 7. Hyland (1998b) made a description of "hedging" as "any linguistic means used to indicate either a) a lack of complete commitment to the truth value of an accompanying proposition, or b) a desire not to express that commitment categorically" (p. 1). Another definition of hedges that belongs to Hyland is that hedges are "the means by which writers can present a proposition as an opinion rather than a fact: items are only hedges in their epistemic sense, and only then when they mark uncertainty" (1998b, p. 5).
- 8. Hedging is a type of negative politeness since the writer or the speaker makes the content of the utterance fuzzier rather than keeping its original meaning (Riekkinen, 2009).
- 9. Hedging is one of the most important strategies of lessening claims by allowing the speaker or writer to express possibility and tentativeness in their academic writings or conversations (Yang, 2013).
- 10. Hedges may be defined as a type of tentative language to abstain from any certainty or to assuage the propositions and statements to avoid possible criticism (Yağız & Demir, 2014).

The definitions provide insight into understanding how hedging are regarded in different disciplines depending on their usage. For example, pragmatists, theoretical linguists, or applied linguists provided definitions of hedging in association with their points of interest. Therefore, it can be concluded from the definitions that hedges have a vast sphere of use and influential. The definition of this study is that hedging is a way of mitigating authorial involvement not to be seen over-assertive which is a situation that may lower credibility towards the argument as well as the writer himself/herself.

2.1.3. Boosting

Boosting, also called certainty markers, intensifiers, emphatics interchangeably in the present study, has been studied as an issue under metadiscourse. It generates a certainty impression in the reader, i.e., an impression of emphatics, assurance and conviction. To put it differently, boosters can be considered as rhetoric devices with a purpose of strengthening authors' claims or statements on the issue, thus it creates a heftier conviction and persuasion influence on the stockholder. Along similar lines, Boosters seek to increase the claims or statements, hence to prove the author's commitment and engagement to her/his statements (Hyland, 1998c). Briefly to illustrate, boosters are certainty markers which intend to prove the writer's stance on a colossal scale by trimming discursive space.

The act of boosting can be considered as the illocutionary force of speech, therefore it may be treated under indirect speech acts of Austin (1962) and Searle (1969). Holmes (1984) touched the subject by indicating: "Modifying the illocutionary force of speech acts involves increasing or decreasing the strength with which the illocutionary point is presented" (p. 347). The commitment in the illocutionary force might entail a perlocutionary act by contributing to the impact of the discourse, which ends up with a concrete impact on the stockholder.

Although hedging and boosting are two important pragmatic aspects of linguistics, boosting is a discursive functional device which has caught less attention when compared to hedging. The case is similar as regards definitions, which means linguistic literature has fewer definitions of boosting than of hedging. Though, boosting is an issue gaining ascending significance in the last decades (cf. Gillaerts & Velde, 2010).

Disguising under different names in various studies, boosters, as a covering term, were called as intensity markers (Behnam & Mirzapour, 2012); commitment (Vassileva, 2001); intensifiers (Lim & Hong, 2012); certainty markers (Kim & Suh, 2014); emphatics (Bondi, 2008); and authority marker (Cook, 1990). The present study used the terms interchangeably. Crompton (1997) stated that boosting is a linguistic device that is referred to make an overstatement. He emphasized authorial commitment through his description of boosting. Different from Crompton, Hyland (2005) approached to the issue from a different point, and said that boosters are generally used to create an opinion of fact with the reader about the writer's existing or proposed claims. The point on which he aims to gather attention is the convincing power of boosters on readers. Therefore, according to Hyland, boosters are metadiscourse devices that notify writer's stance over the whole allegation (Hu & Cao, 2011). It can be

understood through the description that boosters do not have an impact on only individual sentence but on the entire proposition. What is understood from this description is that boosters should be employed carefully because they have an effect not only on the sentence in which boosters are used but on the whole writing. This study has its own description of boosters: boosting, depending on the context in which it is used, is a linguistic device that signals the writer's commitment to his/her proposition(s) to convince the reader on the credibility of his/her statements.

2.2. Academic Writing

The proliferation of colleges, universities and other educational institutions in the past several decades has made academic writing a fact of life for scholars. Afterwards, the issue of scholarly writing has widely been a topic of interest for particularly NNWs. Accordingly quite a few prominent researchers concerned themselves about the issue from different points of view. For example, while Hinkel (2003) stated the importance of grammatical competence in academic writings, researchers such as Allison, Cooley, Lewkowicz and Nunan (1998) discussed the problems in organization of the script on a macro and micro levels. On the other hand, there are researchers who argued the impact of L2 writing competence over L1 writing skill (cf. Shi, 2002; and Hirose, 2003). In conclusion, what made all researchers to stand in the same place is the requirement of an academic writing for being scholarly.

Bailey (2006) divided academic writing into three. The first is the writing process, which includes avoiding plagiarism, from titles to outlines, evaluating texts, understanding purpose and register, selecting key points, note-making, paraphrasing, summary writing, combining sources, planning essays, organising paragraphs, organising the main body, rewriting, and proof-reading. What can be understood from the first stage of academic writing is that writing is a cognitive process. Therefore, the writer is to be braced for writing with complete meta-cognitive awareness. Furthermore, it is seen that academic writing is not a work that can be done arbitrary, but a serious work that needs well preliminary preparation. The second stage concerns elements of writing, which contains argument, cause and effect, cohesion, comparison, definitions, discussion, examples, generalisations, numbers, opening paragraphs, references and quotations, restatement and repetition, style, synonyms, variation in sentence length,

and visual information. The second stage highlights the importance of structural arrangements of an academic writing. Structural arrangements remain the foremost feature of a writing in creating a penetrative impression over the reader. The last stage is accuracy in writing. This, no doubt, engrosses contextual dependency, which is maybe the most crucial stage because the content is all for an academic writing. The third stage lays emphasize on abbreviations, academic vocabulary, adverbs, articles, caution, confusing pairs, conjunctions, nationality language, nouns, adjectives, prefixes, suffixes, prepositions, punctuation, relative pronouns, time words and phrases, and lexical formality.

Among features of academic writing, the literature provides seven pillars which are: complexity, formality, precision, objectivity, explicitness, hedging, and responsibility. Because academic writing is not an issue restricted to a certain group or sphere of people, you may find a huge amount of information on it. For example, a report prepared by Argentina (2013) proposes some tips and features of L2 academic writing. They are:

- 1. Linguistic competence: a) focus on grammar, b) focus on spelling, c) focus on vocabulary, d) focus on writing models
- 2. Discourse competence: a) focus on reference, b) focus on connective devices, c) focus on punctuation, d) focus on text structure, e) focus on paragraph
- 3. Pragmatic competence: a) focus on style, b) focus on communicative function
- Strategic competence: a) focus on text planning, b) focus on data collection, c) focus on data analysis and interpretation
- 5. Intercultural competence: a) focus on L1 and L2 cultural contrasts

Further, a PhD dissertation written by Baratta (2006) specified his study on three distinctive linguistic features of academic writing - normalizations, subordination and passive voice. The general view as regards taxonomy of features of academic writing concentrates on three fields: (1) linguistic features; (2) organizational features; and (3) content-driven features. Linguistic features largely focus on morphological or lexical categories, such as "verb, adjective, nouns" and so on. Organisational categories, as understood from its name, are generally interested in structural arrangements of academic text as stated under *Elements of Writing* before. The last is content-driven

feature which requires of an author to be content-wise, hence, requires much more effort of the author.

The language of science should bear some attributes for a good scientific writing. "Clarity in scientific writings, objectivity in scientific writings, and accuracy in scientific writings" are three basic accepted qualifications which cannot be ignored in the process of scholarly writing.

Clarity in scientific writings

For an effective reading, the text meaning should be clarified (Bailey, 2011). Therefore, writers are to give primacy on clarity but they should evade any initiative of constructing sophisticated texts unless they reach to a certain degree in language competence and proficiency because it might lead to ill-formed sentences, hence disrupt the meaning and clarity. Similarly, Bailey (2006) states that the best thing that an author should do if s/he is indefinite about how to advance in terms of clarity is to wait patiently until being an established writer; without of which it would be difficult to transmit personal goals to readers in a clear way. Hence, the audience will see accurately and exactly what an author wants to be seen from his/her writing. Expanding manuscript clarity at the word and sentence level is a necessary process of editing (Richards & Miller, 2005); however, being clear in writings is not something only with word choice and sentence constructing, but also with graphs, tables, and organisational layout of a scientific writing. Tables should be clear enough for a reader to understand the point that it tells, and graphs need to be visible to make sure that they are clear to audience. The framework of a scientific writing is mostly expected to be bottom-up or deductive. Shortly, while writing for the academic world, authors are to make their definitions clear (Fulwiler, 2002).

Objectivity in scientific writings

One of the forefront objectives of scientific writings is to make the audience believe to the author's utterances, and then persuade them to stick to the trueness of the utterances in order to spread the information. Fulwiler (2002) asserted that the writer should be completely objective and impartial when conducting research, and s/he must strictly adhere to code of objectivity. In addition to that the issue of objectivity is problematic, it is at the hub of numerous challenges to the academic tradition (Richards & Miller, 2005). Richard and Miller (2005) indicated that the writer can achieve impartiality through linguistic devices such as inclusion of passive voices, and plural pronouns, or s/he can provide statistical (quantitative) accounts. The characterization of a good scientific writing is commensurate with its objectivity, which means that a proper scientific text must present a balanced discussion of various views and value judgements (Smyth, 1996). Smyth further claimed that "when you write an academic paper, unless you attribute an opinion to someone else, it is understood to be your own. Phrases such as 'in my opinion' or 'I think,' therefore, are superfluous and a waste of words" (pp. 2-3).

Accuracy in scientific writings

Accuracy is another crucial component of academic writing, through which the writer supplies credibility for his/her claims. Accuracy can be evaluated through proofreadings and other content-wise peer reviewers. Whereas proof-readings are realised in order to detect any language related problems, content-wise peer reviews are applied to seek any content-related misdirection on the topic. As indicated before, writing is a multidimensional process; that is to say: there are a lot disparate factors that could affect the writing process. Accuracy is simply one of the factors that could negatively disrupt the credibility of writing. It is true that while all kinds of writing tasks carry high expectations of accuracy, the expectation of accuracy is even stricter for academic writings than any other types of writings; because any deficiency in accuracy with an academic text will not be acceptable for the writer's credibility. That is because the importance of accuracy in academic world cannot be underestimated for on-demand writing purposes (Richards & Miller, 2005). Native writers may come across with contextual accuracy problems in their articles; however the matter is double-fold for non-native writers because they may have contextual accuracy problems as well as the accuracy of language. Both editors and peer-reviewers examine the academic submissions to ensure authors' accuracy of scholarly and scientific knowledge. However, the accuracy problem of language is much more common among non-native writers; as can be guessed.

So far, it has been told about the features and fundamentals of academic writings. There are certain dos and don'ts which authors should not miss in the process of composing a scientific text; whether it is an empirical or conceptual study. Shortly, the thing which is common among all types and classes of academic writing is the fact that the ideas seize the centre stage, human factor is in the background, and the representation of any ideas or insights belonging to the author has no place (Monippally & Pawar, 2010). Objectivity, clarity, accuracy, and other crucial components of academic writing have two basic goals: "to establish the truth", and "to convey the knowledge". It is possible for a text to bear all the musts of being scientific, and yet, not successful to create the desired effect on the readers. De facto, there are some other invisible but potent conventions of a scientific writing; for example, rhetoric powers of words. Rhetorical devices such as hedging and boosting are generally overlooked in the books aiming academic writing trainings and suggestions (exceptions Hinkel, 2004; Hyland, 2005). Therefore, together with impersonal style, accuracy, clarity and other features of academic writing, rhetorical devices should also be mentioned strictly. While reporting research results or making claims, a writer must use cautious language or assertive language when needed. Henceforth in the chapter, the relationship among academic writing, metadiscourse, rhetorical devices, and challenges in academic writing were illustrated.

2.3. Academic Writing and Metadiscourse

Even if it seems as if it was a recent term, *metadiscourse* has a long past that that goes back to 1959 in which Zellig Harris (the owner of the term *metadiscourse*) proposed a way of understanding communicative language representing a speaker's or writer's attempts to guide a receiver's perception of a written or spoken text (Hyland, 2005). Later on, the concept of metadiscourse was developed further by prominent linguists like Crismore (1989), Vande Kopple (1985) and Williams (1981) who collected a range of discoursal devices (particularly on hedging and boosting) to investigate the effect of them on interlocutors' or receivers' receptions. It is a well establish fact by linguists that awareness of language or language competency has greatly changed from the focus of language itself as form and structure to language use as pragmatics. What was crucial in the past was crucial again; however the tendency of language had converted its face from heavy contented grammar books to the streets, where the language is for communication. A marked milestone in language teaching, also be recognized as communicative language teaching, belonged to Hymes (1974) who steered the notion of communicative competence and the focus of syllabus design away from the grammar based syllabus for an effort to identify the nature of a communication based syllabus (Munby, 1978). Apparently, differences remains between grammar based and communicative based syllabuses. In other words, the notion of communicative competence is based primarily on native speaker's abilities while grammar competence –once upon a time was linguists' primary aim- is something with reading comprehension. It is explicit that the use of even the most basic items such as *hi, thanks* or *good evening* used in a syllabus can possibly bring about cross-cultural misunderstanding owing to pragmatic and communicative differences between languages.

It is seen that, on contrary to formerly thought, communication is much more than just exchanging the words semantically between interlocutors. Hyland (2005) emphasized that metadiscourse is not only the exchange of information but it embodies assumptions, personalities, and attitudes. What is more is that the utterances may have implicit meanings underlying their overt expressions. The use of linguistic components such as adverbs, adjectives, imperatives, evaluative commentary, etc. in a rhetoric manner open new windows on discovering writer's real or intended message submitted to the reader. Therefore, if these rhetoric features were removed, the content would possibly become less interesting, less personal and less easy to follow. Therefore, offering these metadiscourse features systematically provides readers with access to the insight of the content massage and allows readers align themselves with the writer (Hyland, 2005). Again, with a judicious use of metadiscourse, Hyland (2000) stated that a writer is able to alter an uneventful text into a coherent prose; furthermore the writer can relate the text to a given context and transmit his/her credibility, personality, audience-sensitivity to the message. It should not be missed that writing is a multifaceted skill that requires to keep several spontaneous processes under consideration in order to interpret the meaning in a way that will not disrupt the

intended meaning. A writer's positions, interests, perspectives and values are not always easy to convey to the readers through plain texts because they are not always there standing to convey the message. In order for a successful audience communication, comprehension or involvement, there must be a mutual act of understanding between producers and receivers. And, to construct that mutual act of understanding is a tough job from the aspect of writer. To be able to achieve the desired communication, it is expected to use words more than their unbending and dormant meanings, which is one of the main functions of metadiscourse devices.

In the former title, how text structure of a scientific writing should be was told; and sine quibus non were provided. As well as structural and mechanical prerequisites such as objectivity, accuracy, and clarity, a scientific text demands other additions to provide a reader engagement, persuasion, and credibility. Hedging and boosting which are two rhetorical devices being studied heavily since their introduction to linguistics may be a remedy (not a panacea though). According to many prominent linguists such as Crismore, Farnsworth, and Hyland, hedging and boosting are two essential metadiscourse elements of argumentative and persuasive discourse in academic writings. It may be thought that they are for to have more elaborate scientific writings, however, mainly they are for to offer a scientific writing which is more explicit, objective, and accurate. Through the clarity of boosting, it is easier for a reader to be explicit and certain about the possibility of a claim. Again, one of the main functions of hedging is to present objective statements by avoiding to be assertive on an issue (for further cf. Hyland, 2005 p. 5). The book of Metadiscourse: Exploring Interaction in Writing shows us that rhetoric is a concept increasingly important in compositions. The term has been studied from different aspects in order to shed light on its importance on varied fields; for example Schiffrin (1980) studied metadiscourse in casual conversations; Norrick (2001) in oral narratives; Crismore and Farnsworth (1990) in school textbooks; Hyland (2000) in undergraduate textbooks; Bunton (1999), Hyland (2004), and Swales (1990) in postgraduate dissertations; Fuertes-Olivera et al., (2001) in advertising slogans; Hyland (1998d) in company annual reports; Taavitsainen (1999) in medieval medical writings; and Atkinson (1999) in scientific discourse from the late seventeenth century.

As seen, metadiscourse has a vast area of research from formal academic writings to informal slogans. Due to the fact that writing has an overarching significance in academic genre, the use of metadiscourse devices is an important mean of supporting an authorial position, facilitating communication, increasing readability, and building a connection with the audience (Hyland, 2005). Furthermore, it is through rhetorical devices that become possible to present a writer's real opinions, evaluations and interests in a text by refining possible reactions that a reader could develop. According to Ong (1983), rhetoric was named differently through its long history. Since Aristotle's book *rhetoric*, it has been referred as one of the most vital components of all academic issues. The notion of rhetoric inclined to carry adverse connotation for formal proof in the recent past because it was thought that it suggested unscrupulous manipulation and coercion but nowadays it is one of the central concepts to whom working in written communication and text analysis (Hyland, 2005). Mauranen (1993) underlined this importance and stated that:

"The study of rhetoric has been rediscovered not only as a means of improving efficiency in verbal presentation, but as an analytical tool that can be used by different disciplines for uncovering certain aspects of discourse (p. 20)."

The close relationship between rhetoric, persuasion, and academic writing has been an issue studied from different aspects. Rhetoric is essential for making claims, creating a sense to the reader, stylistic appropriateness, organization of the argument, internal consistency, clarity of the claim, and surely persuasion. Therefore, in order to have an effective argumentative writing which aims to persuade that your ideas are accurate and valid, rhetoric must be used in a careful way. Now that rhetoric is the art of persuasion, a writer must be aware of the knowledge on how to use main rhetorical styles effectively. The literature shows that there are three styles of rhetoric that a writer needs to know to be an effective writer, which are *Ethos, Pathos*, and *Logos*. They are the terms coined and categorized by Greek philosopher Aristotle, which are summarized as follows:

Logos are rational appeals reasoning ability of readers. This is the place in which writer use the sense of logic in order to persuade the reader over the argued issue. It

refers to the internal consistency of claims through inductive and deductive reasoning. The writer may use concrete evidences to support his/her arguments. Logos include case studies, facts, statistics, experiments, analogies, anecdotes, logical reasoning, and authority voices (Van, 2015). Every claim that an academic writer make should carry a rationality inside it so that the reader may find it plausible and reasonable. A writer will have quite a few difficulties to persuade the reader on any illogical claim even if he/she asserts that he/she has proofs. Therefore, a scholar should use logos properly in order to avoid any logical fallacies while composing a text.

The word ethos means "character" in Greek, which is a word that refers to the trustworthiness of a writer. Different from logos which cover rationality, ethos are in association with credibility or other ethical appeals. One of the main problems that a writer could face in academic world is the matter of proving himself/herself to the reader that you are the one worth listening to. Therefore, if a writer carries ethos into effect successfully, they may function as credibility appeals by catching readers' respects towards the argumentation as well as the writer himself/herself. The words that can define ethos are credibility, reliability, trustworthiness, reliable sources, and fairness (Van, 2015). A writer's reputation is an issue which may be categorized under ethos. Hauser (1986) stated that ethos should not be regarded as a static attribute or quality, but as something dynamic which changes in each time.

Pathos are emotional appeals like belief in fairness, love, pity, greed, revenge, etc. As aforementioned, one of the features of an academic writing is to have objectivity. Any affective focuses or appeals will certainly be seen as a setback of the text as well as the writer's himself/herself. However, what is told through Pathos is that the scientific text should focus on readers' characterization, i.e. inner worlds. Therefore, pathos are related to the words sympathy, pathetic, affinity, compassion, and empathy. Shortly, Pathos can be defined as art of persuasion by referring to the reader's emotions. This type of convincing is largely used in advertisements, or charity organisations. Though, it is possible to see the traces of pathos in academic writings because some scientific texts needs to touch to an audience's values, needs, and emotional sensibilities in order to persuade him/her. On the other hand, pathos must be used properly; for example, in order to support a truth, or reveal a reality, but not to misrepresent an issue or frighten people (Weida & Stolley, 2013).

Depending on the situations in which *ethos*, *pathos*, and *logos* are used, their level of importance may alter, but all of these rhetoric characteristics are equivalently significant.

It was widespread in the past that academia, which is a place for directness, had not place for rhetoric, but over the last decades we know that academic writing has gradually turned its face from traditional tags as rigid, impersonal, and structured form of discourse and come to be as a convincing endeavour involving interaction between readers and writers (Hyland, 2005). Extra-logical or extra-factual expectations on arguing subjects restrict a writer's workplace, and most of the time this ends with a parochial paper that cannot provide ethos, pathos, and logos. However, the primary and foremost purpose of an academic writing is to stay away from parsimonious accounts as farther as possible, and to enhance its sphere of impact by employing all persuasive techniques that may be influential. In another say, academic writings do not only simply produce plausible and strict accurate texts or knowledge, but construct a negotiation between the writer and reader through improving social relations.

In his book *Metadiscourse: Exploring Interaction in Writing*, Hyland mentions about two modality markers; hedges and boosters, which are two metadiscourse devices that broaden our view of ethos on a perspective of writer-reader interaction (Crismore & Farnsworth, 1989). Then, to some extent, these two metadiscourse devices have been included in academic writings as a communication strategy in order to increase credibility of the claims, and hence, persuade the readers. However, before Crismore & Farnsworth, and Hyland, Grice (1975) had stressed personal pronouns like *we* and *our* to make hedged assertions and propositions. For Grice, the choice of personal pronoun was not a simple referring, but a persuasive initiative. Since then on, the use of first person plural pronoun has been considered as a kind of hedging strategy particularly in linguistics while the use of first person singular pronoun has been considered as a boosting device.

Although there are different categorizations of metadiscourse, the most featured and used belongs to Vande Kopple (1985) who divided metadiscourse into two as *textual metadiscourse* and *interpersonal metadiscourse*: 1. Textual metadiscourse

- *Texts connectives* are linguistic components that are used to connect sentences or parts of a text to one another (first, next, then, etc.)
- *Code glasses* are those that provide help for better understanding the writer's intended meaning; for example, giving an example, using parenthesis, etc.
- Validity markers are those that are used to express the commitment and detachment to the truth or probability of a claim. These are boosters and hedges which enhance the writer's position. Validity markers are two main issues which are discussed in the present study.
- *Narrators* the source of the information from which or whom the knowledge has derived; for example, *the party spokesman said that, according to the report, etc.*

2. Interpersonal metadiscourse

- *Illocution markers* are used to elicit the discourse act that is being performed by the writer; for example, *we assume, to summarize, I hypothesize, etc.*
- *Attitude markers* are those that refer to the authorial attitude to the propositional claim (interestingly, fortunately, desperately, etc.)
- *Commentaries* are used in order to draw the readers towards to the point that the writer would like to see; for example, *you had better see the chapter II again, you will certainly agree with the idea that, etc.*

As seen from Vande Koople's categorization, metadiscourse has a wide area of influence in a writing text. In the title 2.4., the close relationship between metadiscourse, audience, and interactional process was dealt with.

2.4. Metadiscourse, Audience, and Interaction

The main point to be addressed is the way that a writing text achieves communication with its readers. Old discussions regarding whether writing should be regarded as an interactive process or not stayed bygone long ago thanks to the new era studies on writing that proved writing to be a bilateral and mutual process. Therefore, transmission over negotiation through writing is to be viewed as a dialogue process -in line with informative and interactional aspects- rather than monologue. Given that writing establishes a link with its readers through interactivity attribute of it, it will not be incorrect to claim that managing social relationship through writing is highly possible. On the other hand, a writer can achieve to interpret and assess readers effectively through the use of matadiscourse because a text communicates freely with its audience (Hyland, 2005).

The interactional connection between a writer and reader through a writing text is certain. However, as can be understood by the word "interaction", this interactional connection is not unilateral as from writer to reader; or from reader to writer. Obvious impact of writing over its audience does not mean that the impact is one-way as from writer to reader. Grabe and Kaplan (1996) highlighted readers' five main parameters which affect writing:

- Some basic knowledge of readers influences the use of rhetorical choices. They are: the number of readers, and for whom the text is written; i.e. whether the audience is a heterogeneous or homogeneous group; a single person or a group etc.
- 2. The degree of closeness is another issue that affects involvement and interactional features in the text. Therefore, familiarization with the readers is a factor affecting the writer, hence the writing.
- 3. The relative status of audience; both the writer and the audience should have a similar status in order to have a good rapport. A writer is the one who should point to the issue, and adjust accordingly.
- 4. The extent of shared background knowledge it is likely that writers be more explicit while using metadiscourse. That is why they need to assume the reader's lack of institutional, social, or cultural familiarity with the issue being discussed.
- 5. The extent to which topic is shared specifically as indicated earlier, writing is a multidimensional process, and one of the musts that the writer is to keep in mind is the amount of detail that a reader can have or cannot have. How far the writer knows about the reader's elaboration ability of the issues is an evidential support required to construct a writing text in line the reader's taste.

On the basis of what has been told up to now, it can be said that a writer has a strong bond with the reader; a bond which was built with metadiscourse devices.

Therefore, writer, reader, and matadiscourse erect three edges of a triangle in realising an interaction.

The relation between writer and reader is well-established from the aspect of reader's effect on writer, but writer's effect on reader is still at issue. As readers, we almost have no trouble in decoding the texts that the writer has submitted, because we are all set to receive the writer's intended messages; to identify the author's objectives and the context it was designed to create otherwise we would not be his/her readers. The impact of a writer on his/her audience is partly true with which no one can belly, yet there are situations that readers are not able to catch the cues or tips that the writer endeavours to present. Particularly metadiscourse devices such as hedging and boosting may be difficult to notice by audience because they can easily be invisible inside the text. It is claimed that audience mostly ignore metadiscourse devices, which hinders to transmit the message fully to the readers (Hyland, 2000; Hinkel, 2004). In conclusion of that, the author cannot achieve to create the desired effect such as persuasion on the audience. Therefore, metadiscourse which is a crucial link of a text with its context has certain forms of functions like revealing a writer's understanding of his/her readers as well as a reader's understanding of his/her writer. It is through this mutual understanding that a successful social, cognitive, and affective interaction may occur between writera and readers, only through which a scientific writing may accomplish the purpose of reaching to the audience.

We see that the concept of metadiscourse, a communicative and social engagement, is neither context-independent nor reader-independent, and it offers better understanding of the way we present our scientific thoughts into our texts to convey the knowledge. Writing and knowledge are not independent from the actions of members of communities (Geertz, 1983); therefore discourse devices cannot be understood from the perspective of a single individual but of a society (Faigley, 1986). Thanks to metadiscourse, a writer does not only focus on how to present or convey his/her knowledge, but s/he encourages the reader to establish a social interaction with the writer as well. As time goes on, the interactivity of a writing task has emerged different from the times in which writing was considered as a one-way, unilateral process. That is why metadiscourse devices are important in achieving interpersonal communication besides its pragmatic advantages. "With the growth of discourse analysis as a key tool

in understanding language use, the importance of interaction in writing as much as in speech has become ever more obvious, and metadiscourse has emerged as a way of bringing these interactional features to prominence (Hyland, 2005, p.14)". Briefly, it is recognized that readers would not be able to contextualize a text without metadiscourse, which would unable the writer to communicate effectively.

2.5. Challenges in Academic Writing and Metadiscourse

Writing, out of question, is an essential skill in every sphere of daily life. Whether it is used for simple or vital tasks, writing does not cease to be an indispensible component in the contexts where knowledge needs to be negotiated. Besides its steady influence over all types of documents from casual situations to top secret documents, writing has an exclusive and privileged position in scholarly writing for which academic writers aspire.

A quick literature review will strongly suggest that the process of productive and effective writing is not an easy task, and it is not uncommon for even the most veteran scholars to encounter challenges in the process of composing a text productively and effectively (McCormick & Whittington, 2000; Hinkel, 2004; Meyer-Salager, 2008) because effective and productive writing desperately requires a well-organization and complete content knowledge. However, "Academic writers are not solely expected to produce texts that will conceivably represent an external reality, but to use language to offer a salient and dependable illustration of themselves and their work, and to establish social relations with readers through acknowledging and negotiating (Yağız, 2009, p. 42)", and this categorically requires the use of metadiscourse devices appropriately and proportionally.

Hedging, one of two metadiscourse devices that the present study deals with, is a rhetoric device that is gaining importance with a growing need for academic writers. While it poses a challenge even for native writers, particularly non-native writers needs to be very skilful in their act of making rhetorical appeal; i.e. hedging appeal, because the use of hedges necessitates a great amount of attention depending on the context of rhetorical section in which they are used. Academic writers should include hedges in their academic texts adequately and well-balanced. Otherwise, high frequency of hedges in an academic writing could lead to some infelicities such as misconceptions about

claim credibility, and suspicions on writer knowledge. With other say, using excessive number of hedges on low level claims will not be regarded as a kind of detachment strategy; on the contrary, it may cause a backfire since it may be considered as though the owner of the claim or statement did not braced himself/herself sufficient for a decided claim. Furthermore, what will be more desperate regarding the author who has high hedged texts on even low level claims is the suspicion about writer's insufficient knowledge over the issue (Sanjaya, 2013). Therefore, to employ ambiguous and noncommittal statements, or evasive and intentionally vague language in academic texts may not yield to an expected impact on audience, because readers may not be persuaded through sentences that were constructed with too many confidently uncertain statements by using cautious language: hedging.

On the other hand, it is known that texts including hedges led to positive attitudes from the readers when compared to the texts that did not include hedges (Crismore & Vande Kopple, 1997), which is a testament to the positive effect of hedges on readers (Iida, 2007). Hedges are necessary for readers in order to distinguish facts from claims. Furthermore, by toning down their statements, writers can reduce the risk of opposition in academic discourse, and can report their results more precisely (Birkbeck, 2013).

Boosting, the latter of two metadiscourse devices, is the other challenging rhetoric that must be used in equilibrium. A study conducted by Dahl (2008) reported that, as a rhetorical strategy, academic writers in the fields of economics and linguistics preferred to present their propositions in Introduction sections of their research articles with a high degree of assertiveness in order to win the publishing competition, because they considered that the assertive statements including more boosters could persuade audience to their new claims. Similarly, Vázquez and Giner (2008, p. 174) highlighted the significance of assertiveness in scholarly writings: "A major characteristic of academic discourse is the presence of elements whose purpose is to modulate assertions or emphasise statements." However, Being assertive over high level claims could reduce a writer's credibility because it necessitates a substantial amount of evidence for verification.

There is no doubt that hedges and boosters are two crucial rhetorical devices that "represent a major contribution to the social negotiation of knowledge and writers' efforts to persuade readers of the correctness of their claims, helping them to gain community acceptance for their work" (Hyland, 2000, p. 89), but what is challenging for academics is the balance that must be kept between cautious language and assertive language while presenting their ideas in their academic writings (Hyland, 2001). Hyland's another study together with Milton (1997) showed that how to redress a balance of appropriate certainty in academic texts is a problematic issue. Accordingly, Dafouz-Milne (2008) found that academic texts with a true balance of rhetorical devices became more convincing in terms of audience persuasiveness. In short, hedges and boosters have a significant role in constituting central pragmatic features in the process of influencing, persuading, and engaging readers to assent to the writer's claims (Rubio, 2011). However what should be kept truly in the picture is that any immoderate and unbalanced use of these rhetorical devices could lead to a counter effect on writers' credibility in the readers' eyes, which is a metadiscourse challenge that should be dealt with.

2.6. Collocation and Nativeness

The direct relation between collocation proficiency and nativeness is almost certain according to the linguistic literature. Whether associate them to "ready-made chunks (Robins, 1967, p. 21)", or to "mutual expectancy (Zhang, 1993, p. 1)", collocations are word combinations which are well-linked in a native speaker's memory (Aghbar, 1990). According to Fillmore (1979), the proficiency of how to combine words in association with one another is a source of fluency. Therefore, knowledge of collocation undoubtedly brings benefits to non-native writers who desperately long for nativeness in target language.

It is understood that collocations are word combinations that occur in a native speaker's mind intuitively (Sung, 2003), which is a situation occurring without restoring to vocabulary memory purposely but instinctively. The instinctive formation of word combinations in a native speaker's mind can be attributed to its association with nativeness, because there is a strong positive correlation between nativeness and automation on a linguistic component (Nation, 2001). According to Allerton (1984), words in non-native writers' minds do not co-occur freely; instead they lead to co-occurrence restrictions. Hill (2000) commented on the natural way of word

combinations occurring in mind as: "within the mental lexicon, collocation is the most powerful force in the creation and comprehension of all naturally occurring text" (p. 49). Concerning non-native writers' characterization of collocation fallacies, Korosadowicz-Struzynska (1980) quoted that "errors in the use of word collocations surely add to the foreign flavour in the learner's speech and writing and along with his faulty pronunciation they are the strongest markers of 'an accent (p. 115)." On the other hand, Stubbs (2001) emphasized the relation between collocation and nativeness with his own words: "Native speakers' unconscious knowledge of collocation is an essential component of their idiomatic and fluent language use and an important part of their communicative competence (p. 73)." Until now, it is blatantly apparent that the collocation competence differentiates native and non-native speakers from one another (Wouden, 1997; Nation, 2001; Ellis, 2001; Koya, 2006). Due to the fact that knowledge of collocation is an essential component of communicative competence (Partington, 1998) and a source of fluency, non-native writers should object to gain the competence of collocation, which will contribute them to have nativeness in the target language (Coxhead, 2000; Olson, Scarcella, & Matuchniak, 2013; Sonbul & Schmitt, 2013).

The relation between collocation and nativeness is well-established, but what about if a writer is not native? Is it coherent to claim that collocation competence is not possible to acquire by non-native writers because it is a skill that is intuitively used? We know that collocations are ready-made chunks just like other fixed expressions and idioms (Benson, Benson, & Ilson, 1986), and it is possible to teach ready-made chunks, including collocations, to all types of learners (Approach, 1993). Likewise, Wray (2002) claimed that learning formulaic language like collocations through conscious effort is possible. Therefore, any propositions about the relation between collocation and nativesness could be acceptable, but the claims that address to impossibility of teaching collocations must be proven, because the literature shows that although collocations are intuitive word combinations by native speakers, they can be acquired by non-native speakers of a target language.

Now that collocations are considered to play a significant role in written language (Wei & Lei, 2011), and now that it is a skill gained intuitively by native speakers, it will not be difficult to guess that a non-native writer with insufficient collocation knowledge will have difficulties and some infelicities regarding their academic position while composing a scientific writing. One important problem that could rise due to insufficient collocation knowledge is inappropriate word combinations. McArthur (1992) stated that a failure to use collocations appropriately is a principal indicator of foreignness in academic texts. Therefore, any collocational inappropriacies, i.e. wrong word combinations may give rise to lack of confidence to writer's language ability no matter how the content of the writing is unique. It is difficult for a non-native writer to escape seemingly inept and unnatural expressions in their written production without appropriate knowledge of collocation, because the knowledge of collocation is critical for L2 writers to be able to have full communicative mastery of English (Bahns & Eldaw, 1993). Therefore, writers who want to improve their writing fluency need to have a collocation knowledge at a certain extent (Sung, 2003).

To sum up, native speakers, different from non-native speakers, are aware of the words that could occur with other words. They can combine words together in a large number of ready-made chunks and in other various ways in a particular context. The knowledge of co-occurrence words is significant for a non-native writer to be native-like, and in order not to fall into collocation failures that adversely affect writer's written production.

2.7. Fundamental Lexical Aspects of Academic Writing

There are various fundamental factors in the process of academic writing. Two very basic of them are grammatical and lexical based conventions. For decades the effect of grammar teaching was regarded as a predominant factor in academic writing, but as time went on we witnessed a reorientation from grammar to vocabulary (Bahns, 1993). According to the language instructors, this orientation is a step in the right direction. The present study aimed to study lexical aspects, which specifically mean "word based differences that affect writing proficiency"; i.e. how words may contribute to non-native writers in increasing the quality of their academic texts. As indicated earlier, out of various lexical conventions, three main lexical aspects were picked up to investigate in the present study: collocations, hedges, and boosters.

Lexical collocation

Regarding its significance it can be said that collocation is recurrence of two or more words in a way more than arbitrary, and is instinctively used by native writers in large quantities in their academic production. In contrast with the views that often regard collocations as arbitrary, it is known that many wording preferences in English sentence structure cannot be explained on the base of syntactic or semantic grounds, but on the base of relations between words that mostly occur together (Smadja, 1989). However, its frontseat in linguistic was not always sure as it is now. Many important facts that were previously neglected as *extralinguistic* gradually started to expand its influence (Telia, Bragina, Oparina, & Sandomirskaya, 1994), including collocations. The impact and role of *phraseology* have received due recognition in foreign language teaching. Thanks to the advent of corpus linguistics, phraseological patterns in academic texts became visible, which ended up with valuable building blocks in vocabulary learning of a learner (Jurko, 2010). Later, it was Nation (2006) who pointed out L2 word combinations as units that deserved special attention. Once considered as trivial, collocations began to gain importance, and a considerable interest was attributed to lexical collocations, which were largely seen as pre-fabricate language units at earlier times (Cowie A., 1994). Now, it is definite that lexical collocations have big roles in ELT particularly in vocabulary acquisition and phraseology.

Lexical hedges

Lakoff introduced the term "hedge" into linguistics in 1973, which was a dim time for hedging popularity. Arising from Rosch's (1973; 1983; 1999) investigations based on *prototype theory* and Zadeh's (1965) *fuzzy-set theory*, the term hedge has been defined by many researchers since then on. 1980s were starring years for hedging researches through spreading of cross cultural and contrastive studies particularly in EAP (Iida, 2007). As to 1990s, hedging had already got its fame in linguistics and ELT with a growing number of studies by a great many of researchers; hedging was considered as a term, influence of which exceeded its frontiers in linguistics. Meanwhile, Hyland had already begun to classify hedges in order to get the utmost advantage of them (cf. Hyland, 1998b). He categorized hedges into two as *lexical hedges* and *strategic hedges*; lexical hedges include modal verbs, epistemic adjectives, epistemic lexical verbs, nouns, and adverbs while strategic hedges include "reference to limiting experimental situations", "admission to a lack of knowledge" and "reference to a model, theory, or methodology (p. 114)." Hyland's distribution of hedges has affected academic discourse communities differently, and led to interdisciplinary studies. As time went on, the focus was diverted from quantitative (e.g. Vold, 2006; Tran & Duong, 2013) to qualitative investigations of hedges (e.g. Hu & Cao, 2011; Zarei & Mansoori, 2011); and qualitative researches have contributed to better see the effect of hedging on academic texts; accordingly on stylistic appropriateness. Now, hedges are "critical" (Hyland, 1998b) and "vital" (Salager-Meyer, 1994) components of academic writing especially when the emphasize is on persuasiveness and credibility of writer statements.

Lexical boosters

The linguistic literature shows that boosters concerned less when compared to hedging. However, discursive-functional perspective of effective scientific writing is not only composed of hedges, but also boosters. When the term "booster" was used by Holmes (1982) to refer to lexical items which can be used to reflect writer's strong commitment, it was hardly known by linguists that boosters, a metadiscourse device, had such a conviction power on readers. As aforementioned, later on the term was diversified by different linguists: they were called as intensity markers (Behnam & Mirzapour, 2012); commitment (Vassileva, 2001); intensifiers (Lim & Hong, 2012); certainty markers (Kim & Suh, 2014); emphatics (Bondi, 2008); and authority marker (Cook, 1990). No matter how the researcher calls, boosters have been getting increasing attention since their introduction, particularly to academic discourse. Following Holmes, Myers (1985) stressed that persuasion in academic texts could be achieved by creating a persona through the use of boosters because hedging on its own would not be sufficient in order for the accomplishment of conviction on readers (1985b). 1990s and 2000s continued to witness the significance of boosters for academic discourse (e.g. Hyland, 1998c, 1998d, 2001; Varttala, 1999; Vassileva, 2001; Silver, 2003; Peacock, 2006; Yağız & Demir, 2015b)

2.8. Discussions of Collocations

Having provided discussions on importance of collocation that existed in the literature, this study categorized collocations into different subtitles on an involved path. The literature provides us with data that prove the benefit of collocations for language producers. The first is that collocations are valuable for learners in order to increase their lexicon knowledge and language proficiency. The second benefit is that brain seems to work better with chunks and formulaic expressions follows; however, L1 influence in meta-cognitive issues is a major challenge that needs to be overcome. The third reason to acquire knowledge of collocation is related to the fact that "collocation is the key to fluency" (Hill, 2000, p. 164). As indicated before, collocation may assist writers to have native fluency, accordingly native-like written productions, because it is through collocations that a language user has native-fluency in their spoken or written discourses. The last part contained miscellaneous studies that emphasized the importance of collocations on other language components.

2.8.1. The importance of collocations

First introduced by Palmer (1933) and then brought to the discipline of theoretical linguistics by Firth (1957), collocations have had a wide range of influence in ELT. One important sphere of influence is on vocabulary teaching, on which Lewis (2001) caught all attentions through his theory of *Lexical approach*. Lexical approach entails teaching vocabulary to learners by using the power of word combinations already in their chunks, namely collocations. Accordingly, a vocabulary knowledge is not only to know its dictionary meaning but to understand a number of details about the word. In addition to possible combinations of words, their derivational aspects such as suffixes and prefixes, their semantic behaviour, and their sociolinguistic attributes have importance in familiarizing with a word (Richards, 1976), which what Richard said proves that collocation competence is important in order to use words more accurately. Furthermore, "the importance of prefabricated speech routines in language behaviour" was underscored by Nattinger (1980, p. 337). Nattinger also added that word combination predictability plays significant role in determining the way we use

language, and likewise, prefabricated sentences taught in units make the learner to store and recall the words readily.

Not all researchers made a consensus on the issue of collocation and its influence over other components of English language. For instance, Kennedy (1990) reported his doubts about whether or not collocation truly existed, which is a view in stark contrast with other researchers (e.g. Lewis, Nattinger, Pawley) who achieved an agreement on overwhelming prevalence of collocations in English language. As with Kennedy, Krashen and Scarcella (1980) denied the views of that a large part of language included collocations. However, the objections were to the benefits of collocations, but to whether collocations in English language were common or not. Therefore, even the objections to collocation do not refute the significance of collocations for both language producer and the language itself.

The close relationship between collations and specialized translations is worth mentioning distinctively. Some researchers (e.g. Castro, Martinez, & Faber, 2014) established a tight junction between specialized translation and correlation. Specialised translation cannot be achieved only with accurate meaning transfer but adjustment to format specifications, punctuality in delivery (Bonet, 2002), satisfaction of communicative expectations (Montero, Silvia, & Mercedes, 2001), and understanding the concepts formed by various types of specialized lexical units; for example terminological phrases and terms (Montero, Silvia, & Pedro, 2002). It is understood that -to a great extent- phraseological units composed of prefabricated chunks and collocations contribute to achieve better specialised translations. Similarly, Castro et al. (2014) stated that collocations are extremely crucial for both decoding and encoding the texts in the course of specialized translation. According to Rundell (2010), even grammar is not more important than collocations because collocations make writers sound fluent.

It is becoming gradually apparent that "language is largely formulaic in nature, and that the competent use of formulaic sequences is an important part of fluent and natural language use" (Durrant & Schmitt, 2009, p. 157). This influence has made collocations evident in academic writings as well. Although to what extent NNWs use collocations is not evident (Durrant & Schmitt, 2009), it is stated that non-native writers tend not to know much about collocations (Kjellmer, 1990), which are ready-at-hand

and pre-constructed in minds of natives. That is not a no-objection case in terms of having native fluency because the strong bond between academic writing and collocations is well-established. Furthermore, Howarth (1998) reported that ESL/EFL learners may become native-like writers if they realise the important role of collocations, and pay the necessary attention on collocation competence. Brown (1974) stressed that collocation competence enables language producers to realize formulaic expressions or language chunks used by natives in their writings, and to get the intuitive use of word combinations in a natural way as natives do. Thanks to collocations, a writer may shift his/her concentration from individual words to structures of the discourse, which is a case done through teaching lexical phrases in ELT, and the most important reason to teach lexical phrase is that it leads to writing fluency (Li C.-C. , 2005).

We have witnessed different studies persevering on the benefits of collocations on behalf of language users in the last decade. For example, an early experimental study by Zhang (1993) was conducted to detect the effect of collocations on EFL/ESL writings. Then, the relationship between collocations and general language proficiency was aroused some researchers' interests (e.g. Al-Zahrani, 1998; Bonk, 2000). The literature points to studies which aim to detect the relation between collocation and four English skill: collocation and listening (Hsu & Hsu, 2007); between collocations and reading (Lien, 2003), between collocations and speaking (Sung, 2003; Hsu & Chiu, 2008), and collocation and vocabulary acquisition (Kennedy G. D., 1990).

Of what has been told so far, it is apparent that collocation does not only have an influence on writing skill but also on other basic skills like speaking, reading, and speaking. Furthermore, the most significant benefit that collocation competence brings is to writing quality. In other say, there is strong evidence that collocation competence or knowledge of competence allows non-native writer to have native fluency, and native-like academic writings.

2.8.2. Collocations, lexical competence, and general English proficiency

Some studies focused on positive correlation between collocational knowledge and level of lexicon (cf. Wray, 2002). To start with, the foremost of them belongs to Nation (2001) who claimed that a language producer's collocational knowledge constitutes "one important aspect of vocabulary knowledge" (p. 328). There are passive and active vocabularies in our mind. Active vocabularies are much faster than passive vocabularies in recalling when needed. Wu (1996) conducted an empirical study in order to find out whether passive vocabularies could be turned into active vocabularies through the frequent use of lexical collocations. Wu concluded that a good command of lexical collocations is a useful way to turn passive vocabularies into active.

The relationship between language proficiency and lexical competence attracted researchers as a rising issue. A study (Zareva, Schwanenflugel, & Nikolova, 2005) that aimed to determine what features of language were associated with the macrolevel of lexical competence showed that word associations increased lexical competence of language producers, and accordingly their L2 proficiency. Likewise, turning to Nattinger's study (1980), it is understood that there are some prefabricated phrases and sentences that could be taught in chunks. According to Nattinger, if vocabularies are taught in chunks, a learner could get use of them by expanding their lexicon, which is to say in brief; collocations may assist writers in enhancing their vocabulary fluency and accuracy in L2 by improving communicative functions of language. Similarly, an earlier study (Howarth, 1998) made a comparison between NWs and NNWs in terms of gauging their language performances. Its findings put forth that lexically competent writers internalized collocations successfully, which made the relation between collocation and lexical competence even brighter.

It is hardly possible to find a study in the literature that does not mention about positive correlation between knowledge of collocations and lexical competence. One exception for that belongs to Tekingul (2012) who had a purpose of finding out whether explicit collocation teaching or single-item vocabulary instruction is more successful on reading comprehension. She reported an inconclusive result, which proved no significant difference between collocation teaching treatment and single-item vocabulary instruction treatment. Though, she did not deny the importance of collocation on vocabulary teaching, but only stressed no superiority regarding the two teaching methods.

Some other studies expanded the circle of influence, and established a link between collocation and overall language acquisition. The issue of whether lower-level language users had limited knowledge of collocations when compared to higher-level language users was investigated, and it was concluded that language users with lower collocational knowledge demonstrated lower language proficiency when compared to learner with high collocational knowledge (Bonk, 2000). Bonk's results can be expanded to academic writers as well. Writers who have higher competence of collocations may purport higher proficiencies in their academic writings than writers with low competence of collocations. Another study (Nizonkiza, 2011) assessed the relationship between lexical competence, EFL proficiency, and collocational competence. Nizonkiza performed an experiment with 104 freshmen, sophomore, and senior students in total, and the results clearly revealed that lexical competence is a reliable predictor of L2 proficiency, and mastery of collocations is found to be related to frequency and to predict lexical competence. To be able to enhance academic performance, and make a voice in the wider community, together with lexical competence, Turner (2004) stressed the importance of improving, what he called, "collocation repertoire" (p. 107). It is understood from Turner's articles that collocation is at least as much important as other linguistic features in academic prose. An empirical study with a purpose of measuring the direct effect of collocation on English language proficiency was carried out by Rahimi and Momeni (2012). In their study, sixty learners were grouped into two as experimental and control, the former of which were taught collocations through using corpus-based activities and concondancers while the latter group had traditional way of teaching. Their statistical findings demonstrated that experimental group had a higher performance than control group, implying that systematic teaching of collocation can enhance learners' language proficiency. Cloze tests are generally designed to gauge the general English proficiency of learner due to its large sphere of measuring area ranging from vocabularies and prepositions to basic grammar skills. Whether there was a correlation between collocational competence and cloze test proficiency was investigated (Keshavarz & Salimi, 2007), and statistical analyses yielded a statistically significant difference between performance on cloze tests and competence of collocation, which may be construed as the effect of collocational knowledge on general English proficiency.

2.8.3. Collocations, meta-cognition, and L1 influence

Since Ellis's (1986) attention on the issue, L1 influence has always been a factor that should not be kept outdoor while investigating any linguistic titles. The issue of collocation has received its share as well.

It is highly common for non-native English speakers to transfer their L1 word combinations into target language, which is a major cause of errors in non-native speakers' language productions (Koosha & Jafarpour, 2006). The negative effect of L1 on L2 collocation acquisition was studied by Gabrys-Biskup (1992), and the interference was seen as the prime cause of errors in collocation use. A year later, the interference of L1 into L2 setting turned up an argument claimed by Bahns and Eldaw (1993) who argued that non-native speakers of English could convey their L1 collocational knowledge conventions into target language inappropriately. The negative cause of collocational differences between L1 and L2 is an obvious matter for non-native speakers of English as proven in Sadeghi's (2009) study. Sadeghi aimed to discover whether native language might be a obstacle for non-native speakers in the course of acquiring English collocations. Sadeghi's findings revealed that negative transfer of linguistic knowledge of L1 into L2 context was a troublesome issue that must be dealt with immediately.

Sadeghi had studied with Persian speakers; could it be possible to get different results if the participants had been changed? This time, possible similar effect was gauged from the aspect of Italian speakers. Martelli (2006) gathered a group of advanced Italian students of English in order to detect the influence of L1 in L2 lexical collocation use. Martelli had a purpose of detecting and describing miscollocations made by students in the production of word combinations. Unsurprisingly, he corroborated the role of L1 interference in the generation of wrong lexical collocations. Different from other studies, Martelli's study yielded that certain types of collocation errors are more prone to occurring than others, which carried the issue to a different point. Martelli prompted us to notice that some types of collocations. Martelli's findings corroborated Li (2005) who detected that verb+noun collocation types are the most common errors while *adjective+infinitive* errors are the least experienced ones, which proved that not all types of collocations are affected by L1 interference on an equal basis. Another study (Fan, 2009), the participants of which were from Hong Kong,

provided results in line with previous studies. It attempted to have a deeper understanding of collocation usage and problems by adopting a task based approach while analysing British and Honk Kong ESL learners' written texts. Again, apart from absolute L1 influence, the study found that any lexical or grammatical inadequacy in L2 could adversely affect L2 collocation use efficiently.

L1 influence is not only involved in acquisition of L2 lexical collocations but grammatical collocations as well. A sample of sixty advanced non-native speakers were investigated in order to purport the possible influence of L1 over L2 grammatical collocation acquisition, use, and errors (cf. Mohammed & Mustafa, 2012). The study that was subscribed to the role of L1 in L2 collocation learning concluded that the majority of errors made by the group are due to cognitive source of errors, i.e. speakers' mother tongue interference. Likewise, Darvishi (2011) aimed to detect the source of unacceptable and odd collocational expressions of non-native writers in terms of both lexical and grammatical. Darvishi obtained different reasons for inappropriate collocations such as interlingual or intralingual transfer, shortage of collocational knowledge, and lack of collocational concept. It is understood from Darvishi's findings that mother tongue is not the only factor in inappropriate collocation constructions in non-native writers' written productions. Collocation is an issue that can be investigated more specifically. Seen in this light, Nesselhauf's study divorced itself from other studies in the literature by specifying its aim only on *verb*+*noun* collocations rather than all types of collocations. Nesselhauf (2003) analysed free written productions belonging to non-native writers, and ended her study with a conclusion that verb+noun word combinations are considerably influenced by mother tongue interference.

Like idioms, collocations are a part of formulaic language. Assuming that free combinations, figurative idioms, pure idioms, and restricted collocations are four types of lexical collocations, Huang from Texas University purported to measure EFL learners' knowledge of lexical collocations. Huang (2001) ended with that free combinations are much easier whereas pure idioms are the most challenging ones for learners. Furthermore, Huang demonstrated that collocation errors can be attributed to negative L1 transfer, and insufficient knowledge of collocations is widespread among non-native speakers of English. Similarly, another study in tune with all others that was conducted to investigate prefabricated patters such as collocations and lexical phrases

emphasized the important role of L1 in the acquisition of prefabricated patters in advanced ELF writings (Granger, 1998). Shortly it can be said that formulaic language in non-native speakers' productions is not free from L1 interference (Ellis, Simpson-Vlanch, & Maynard, 2008)

However not all studies proved the influence of L1 on L2 collocation acquisition and use. One example for it includes Dechert and Lennon's (1989) contrastive pragmatic study. They studied with advanced speakers of English, and did not find a significant effect of interference, which is nearly a unique study with its disparate finding.

2.8.4. Collocations and native fluency

According to Prodromou (2003), on the path of achieving native-fluency in written productions, the use of collocation is a potential difficulty that non-native writers usually face. Prodromou, like many other researchers, claims that there is a close relationship between collocations and native fluency. Some researchers carried their allegations further, and made experimental and/or theoretical investigations in order to prove the relationship. One of these valuable studies belongs to Martynska (2004) who had a study with a twofold purpose; one of which was to reveal non-native English speakers' level of collocation in the process of L2 learning. Martynska concluded that the knowledge of how to combine words into chunks efficiently is imperative, and non-native speakers of English are bound to have collocational competence if they want to achieve native-like proficiency. Furthermore, Martynska reported that "the richer in collocations the learner's lexicon is, the higher precision, accuracy, coherence and authenticity of his/her speech, which is a perfect way to fluency and proficiency in the language as well as to greater language competence" (p. 11).

Mainly different from Martynska, Hsu (2007) compared Taiwanese English majors' and non-English majors' written texts in order to obtain some insights on how Taiwanese English majors and non-English majors used lexical collocations in their writings. The findings showed a statistically significant correlation between two types of majors in terms of writing scores and frequency of lexical collocations. Furthermore, the analysis put forth a significant correlation between subjects' online writing scores

and their variety of lexical collocations. As consequence, the finding proved the effect of collocational variety and frequency on writing scores. Diversity and frequency of lexical collocations in an academic paper obtained higher writing scores.

The effect of lexical collocation awareness on writing skill is an issue that was investigated by some researchers. A recent study (Eidian, Gorjian, & Aghvami, 2014) with the aim of investigating the possible effect of collocation awareness on writing quality established a strong link between them. In other saying, lexical collocation awareness developed the writing components of vocabulary, and helped the writers have fluency in their essay writings.

Natives' and non-native writers' level of collocation use was a crucial issue that should be investigated in order to create a database for further studies, and the mission was undertaken by Durrant and Schmitt; two important linguistic researchers in their field. Durrant and Schmitt (2009) suggested that claims concerning indeterminacy of non-native writers' collocation and formulaicity is a problematic issue requiring to be solved immediately. At the end of their analyses, Durrant and Schmitt found that nonnative writers depend heavily on high-frequency collocations, while at the same time they underuse less frequent but strongly associated collocations which are decidedly salient for native writers. Also, their findings reported that idiomatic phraseology is an issue on which non-native writers have deficiencies. In brief, Durrant and Schmitt's study allowed us to gain an insight on that there are differences between native and nonnative writers in terms of collocation use, particularly of collocations which are less frequent. What can be understood from their study is that non-native writers must have awareness of collocations particularly of those that are less frequent in order to have native fluency in their academic writings.

Brain function is an important process in collocation acquisition. In terms of brain functionality, the processes of learning a collocation involve the same paths as learning a vocabulary. Different from vocabulary, a collocation involves sequences of words, and these sequences of words are processed in a more efficient way because these single memorized units can be processed more easily and quickly than the same sequences of words that are produced creatively (Pawley & Syder, 1983). Conklin and Schmitt (2008) investigated the processing of formulaic sequences by comparing reading times for nonformulaic phrases and formulaic sequences of native and non-

native speakers of English. The findings showed that nonformulaic phrases were read more slowly than formulaic sequences, which proved that formulaic sequences have a processing advantage. At the end of their study, Conklin and Schmitt advised nonnative speakers to get accustomed to formulaic sequences if they want to enjoy the same type of processing advantages as native speakers do.

Processing and production of collocation are issues that are largely studied through corpus based sources. These issues were investigated by Siyanova and Schmitt (2008) in terms of L2 learners. Their investigations yielded that nearly 45% of all learner collocations are appropriately constructed, and that very little difference existed between native and non-native speakers of English in terms of frequent and strongly associated English collocations. However, "Unfortunately, the high percentage of appropriate collocation (p. 429)" added Siyanova and Schmitt, which means that using high frequency and strongly associated word combinations is not sufficient to be seen native-like; i.e. non-native speakers should also use less frequent collocations (cf. Durrant & Schmitt, 2009). Shortly, Siyanova and Schmitt summarized their results by reporting that L2 learners are capable of generating a great number of correct and appropriate collocations but that the fluency with collocations and underlying intuitions of even advanced speakers or writers do not sound to match those of natives.

To sum up the studies regarding collocation and nativeness, overall viewpoints report that there is a relationship between collocation knowledge and native fluency. However any shortfall in non-native speakers' competence of word combinations is due to inadequate input, rather than non-native approach of learning (Durrant & Schmitt, 2010).

2.8.5. Collocations and miscellaneous investigations

Hitherto, it is apparent that a large number of researchers conducted studies to detect the possible effect of L1 interference into L2 collocation use or acquisitions, and to investigate whether there is a relationship between collocational competence and native-fluency in language use. However, it will be too restrictive to narrow the effect of collocation on only writing fluency. Assuming that the views trying to establish a link between collocation and other language components are worth investigating, some

researchers studied the possible effect of collocation competence on other linguistic features. To begin with, it is stated that collocations help readers speed their reading and comprehension (Grabe & Stoller, 2002). Keeping that knowledge in mind, a study (Webb, Newton, & Chang, 2013) investigated the effect of reading repetition on the learning of collocation. The findings demonstrated that it is possible for learners to acquire collocational competence through readings, and you do not need a formal teaching setting because the learning can be achieved incidentally at the course of readings. Further, the study put forth that the more you encounter collocations, the more sizable learning gains may occur.

A small-scale experimental study (Boers, Eyckmans, Kappel, Stengers, & Demecheleer, 2006) investigated whether the use of formulaic sequences can help learners have native oral proficiency. The result suggested that helping learners construct a repertoire of formulaic sequences may be useful for improving non-native speakers' oral proficiency. Therefore, according to the findings of Boers et al., it will not be incorrect to claim that "the use of formulaic sequences was shown to be especially beneficial to perceptions of learners' fluency and range of expression (p. 257)". Similar to the former study, Hsu and Chiu (2008) explored lexical collocation competence and its relation to the speaking performance of advanced EFL speakers, and what they found was not different from Boers' et al. The results demonstrated a strong significant correlation between EFL learners' speaking proficiency and their knowledge of lexical collocations.

Some quantitative studies worked with numbers, and presented some descriptive results for the literature. One of them belongs to Shin and Nation (2007) who investigated a huge amount of data and compiled the most frequently used 100 collocations in order to have oral proficiency. The highest three frequency of spoken English collocations based on carefully applied criteria was ranked top-down: (1) you know, (2) I think, and (3) a bit. Very like Shin and Nations, Durrant (2009) investigated the viability of a collocation list for academic purposes. After a series of corpora analyses, Durrant created a list of top 100 academic collocations that can be used in academic writing; different from Shin and Nation whose list had been created for speaking proficiency. The first three collocations in Durrant's list are reported as: (1) this study, (2) associated with, and (3) based on.

As an crucial factor in SLA, culture is another factor that is wondered whether it has an effect on collocations or not. The study by four researchers (Telia, Bragina, Oparina, & Sandomirskaya, 1994) was dedicated to reveal if it could be mentioned about the effect of culture on collocations or "collocator" (op. cit. p. 368). Their findings showed that the choice of the collocator seem to be determined by cultural determinants.

2.9. Discussions of Hedges

In the present study, hedging was categorized into four to lead to any convoluted explanation because hedging is an issue that was studied from a multidimensional perspective. The subtitles are those: *Cross-linguistic hedging studies; Cross-disciplinary hedging studies; Nativity and the use of hedges;* and *Miscellaneous hedging studies.*

2.9.1. Cross-linguistic studies on hedging

Cross-linguistic investigations on hedging strategies have spread over a large area. To start with a famous researcher, Hinkel (1997) carried a cross-linguistic study based on corpus analysis, and compared native speakers and non-native speakers with a purpose of revealing referential, lexical, syntactic, and rhetorical indirectness devices they employed. The results demonstrated that non-natives had greater frequencies than natives in using indirectness devices like disclaimers, rhetorical questions and tags, vagueness and ambiguity, ambiguous pronouns, and passive voices. However, not in all hedging types were they in common; for example a non-significant difference was detected between natives and non-natives in terms of using hedging devices like downtoners, distancing, diminutives, understatements, nominalization, conditional tenses, and other discourse particles. It is understood from Hinkel's study that differences remain between natives and non-natives in terms of their hedge preferences.

Cross-linguistic variation of metadiscourse devices was investigated crosssectional by Lee and Casal (2014). They analysed result and discussion chapters of theses written in English and Spanish in the field of engineering. Unsurprisingly, they found a significant difference between English authors and Spanish authors, which English authors were ahead of Spanish authors in overall frequency of hedges. In spite of greater overall hedge frequencies, English authors did not have more hedges in all subcategories. The results showed that there were some hedge types that Spanish authors used more than English authors, which may be seen as a proof that subcategorization of hedges is important in order to reveal detailed and more precise outcomes; as the present study did. Another similar study that compared Spanish and English written texts was conducted by Guinda (2003) in order to explore the contractual role of modality as embedded and convergence strategy. This time, the data were composed of fifty research articles written in the field of aeronautical engineering and related disciplines. The findings put forth that although Spanish authors had their publications published in renowned international journals, they still had pragmatic failures of metadiscourse devices, particularly of hedging and boosting, and these failures may be attributed to instructional factors.

The use of hedges across academic writing corpora is an issue that calls attention from researchers. With a purpose of exploring Chinese and English writers' cultural and linguistic variations in using hedges, Yang (2013) had a elaborative scanning of both Chinese and English scientific writings. Yang's findings were not different from other studies. Yang found out that English authors included hedges nearly twice as frequently as in Chinese-authored scientific discourse. Furthermore, sectional differences were discovered, for example *Results* and *Discussions* were sections that included over %70 of all hedges in the corpora. Consequently, Yang concluded that Chinese academic community prefer more assertive and authoritative way of presenting scientific claims while English-medium journals encourage indirectness devices to mitigate authorial commitment.

Yuxiu and Le (2014) collected data from Chinese and American courtroom discourse through analytical and theoretical frameworks, and aimed to detect cross-linguistic influence on hedges. Despite sub-categorization differences, the results demonstrated a greater influence of hedges on English speakers than on Chinese speakers in overall. Hun and Li (2015) were another researchers who studied epistemic modality in L1 and L2 written argumentative essays cross-linguistically. Their findings showed that Chinese learners modify their statements with indirectness devices, and use more tentative expressions than they use in their L1. Therefore, it can be said that language change has an effect on metadiscourse devices. Divorced from other studies in

the literature, their findings claimed that language proficiency has no influence on discourse competence, because regardless of language proficiency, learner groups at different language proficiencies provided similar results.

A thesis (Alg1, 2012) that investigated hedges and boosters in L1 and L2 of Turkish speakers found out that Turkish speakers used slightly more hedges and boosters in their Turkish argumentative paragraphs than in English paragraphs. In addition, Alg1 found that frequencies, functions and types of hedges did not differ significantly in learners' L1 and L2 writings. Shortly, Alg1 indicated that swift from L1 to L2 does not have much influence on hedging and boosting. Another similar study (Uysal, 2012) aimed to reveal cross-linguistic differences between Turkish authors and Anglophonic authors lent credibility to the claim made by Alg1 (2012). Uysal's results revealed that both Turkish and Anglophonic authors were largely similar in terms of indirectness devices.

Some cross-linguistic studies preferred to study hedges in atomistic way rather than holistic. One example belongs to Orta (2010) who investigated the use of modals acting as hedges through a corpus of research articles in various disciplines. The results obtained in Orta's study pointed a deviant handling of indirectness devices by Spanish writers when compared to writers from other nationalities. Furthermore, Orta found out that Spanish writers experience troubles in establishing a proper tenor while writing in English. Furthermore, Orta remarked that Spanish writers expressed epistemic stance in a way different from English writers by employing modal hedges like *can* instead of *may* to express possibility.

Hedging is an issue that may be investigated not only for frequency or descriptive conclusions but for many other purposes. Itakura's study (2013) can be shown as an example for this because he aimed to see how hedges are used in English and Japanese book reviews. For Itakura, hedges are linguistic expressions that qualify statements and opinions, and the use of them in book reviews can reflect reviews' authentic and positive politeness and willingness towards the book that is evaluated. The findings showed that Japanese reviewers use more hedges, which may be because they wish to remain non-committal through impersonal syntactic structures. Another Japanese researcher (Iida, 2007) analysed hedges in medical articles written in English and Japanese. Iida's research ended with a result that emphasized a number of specific

differences between two types of authors. According to the findings, Japanese authors employed epistemic adjectives and adverbs less frequently than their English counterparts. Iida's investigation of medical articles in order to detect cross-linguistic difference did not much differ from other studies that collected a corpus of different disciplines. However, not all studies ended with similar results as in Sanjaya's (2013). Sanjaya had a purpose of revealing rhetorical difference between Indonesian and English authors in terms of hedge utilization and frequency. The finding did not mention about any difference between two author types; neither regarding withinlanguage nor within-discipline comparison.

2.9.2. Cross-disciplinary studies on hedging

The linguistic literature provides that a great amount of data on crossdisciplinary studies focused on hedges. Vázquez and Giner (2008) compared soft (marketing) and hard sciences (Biology and Mechanical Engineering) in order to reveal whether there were disciplinal differences in using hedges. The results indicated that Mechanical Engineering is the discipline in which hedges are used less frequently while Marketing includes the highest frequency of hedging devices. Biology appears to be the discipline between Mechanical Engineering and Marketing in terms of hedge number. Their study provided a vision on whether it might be claimed that soft sciences include more tentative and indirect language than hard sciences because hard sciences require more certainty while having a claim or statement.

The role of hedges attracted Turkish scholars as well. Doyuran (2009) aimed to determine the role of hedges by identifying distribution, purposes and major forms of hedges. She gathered a data comprised of Geological Engineering and Linguistics. Doyuran's results were similar to that of Vázquez and Giner in that Linguistics, which is a soft science, included significantly more hedges than those in Geological Engineering which is a hard science. Ekoç (2010), another Turkish scholar, conducted an investigation in order to reveal Turkish students' lexical hedging strategies in MA theses abstracts, and to analyze whether there is any specific variation in terms of employing hedges with respect to frequency on lexical bases. She compared a number of disciplines namely Chemistry, ELT, Biology, International Relations, and Political sciences. The results indicated that there is not a significant difference among the

disciplines in terms of using hedges, though, slight differences in hedge frequencies may be due to the constrictions of the disciplines itself.

Similar to Ekoç's and Vázquez and Giner's studies, the comparison of hard and soft sciences was realised by two researchers (Tran & Duong, 2013). This time, results and discussions sections of Applied Linguistics and Chemical Engineering were compared to one another. The aim of analyzing the data sectional was to detect a possible differentiation between sections. The results were not surprising at all, and were totally congruent with the former findings in the literature. Obviously and significantly Applied Linguistics included much more hedges than Chemical Engineering did. Again, the literature showed us that soft science disciplines heavily use indirectness devices in order to mitigate the statements.

Up to now, it is ensured that soft science disciplines use more hedges, hence become more tentative when compared to hard sciences. But, what could be said if the comparison was realized between two soft science disciplines? Biook and Mohseni (2014) sought an answer for the question and made an experiential study in order to evince the results. They selected ELT and Psychology disciplines to make content analyses regarding hedging strategies. Their results demonstrated a non-significance, i.e. both fields of study had used a similar number of hedges, which is a significant result for further discussions. In addition, distancing phrases were the most frequently used hedge type in both disciplines while engagement markers were the least used hedge type. Similarly, two sub-disciplines of Business, Marketing and Management, were analysed by Li and Pramoolsook (2015) so that move structures (*introducing purpose, describing methodology, summarizing results, presenting conclusions by Bhatia (1993)* and hedging strategies could be revealed. The results provided similar findings for both disciplines. The use of hedging was common in Marketing as well as in Management.

Nivales (2011) favoured to collect data from novice writers to detect their commitment to the proposed ideas. Nivales wanted to see how novice writers used indirectness in their writings. She compared Psychology and Mass Communication because she thought that Psychology requires a tentative and detached language while Mass Communication use a certain language. The analysis results proved an apparent difference between two disciplines. In accordance with Nivales' thought, Psychology

used a more tentative language, and appeared more detached whereas writers of Mass Communication seemed more authorial and committed. As last, Nivales remarked that impersonality is a writing convention that should not be ignored.

The use of hedges in medical texts is corroborated by the studies stated earlier (e.g, Taavitsainen, 1999; Iida, 2007). With a purpose of comparing articles in Education and Nursing, Rabab'ah (2013) collected 50 academic articles in total from two disciplines, and analyzed them. The results were significant in total as well as in subcategories. Writers in Education used more hedges in order to sustain their communicative strategies to qualify their authorial commitment, to reduce the force of statements, to avoid being assertive, and hence to save writers' face. The high frequency use of hedges is not surprising, because it is known that medical discourse requires to be more certain, unravelling, and steady.

Form, frequency, and function of hedges were investigated by comparing 100 quantitative and qualitative research articles (cf. Behnam, Naeimi, & Darvishzade, 2012). Having applied the taxonomy to classify and identify the hedges in their corpus, the researchers used independent-samples t-test. According to the analysis results, there was a statistically significant difference between two types of data: qualitative and quantitative. It was seen that the number of hedges used in two types of corpora was superior in qualitative research articles when compared to quantitative research articles. The findings are not distractive because in qualitative studies writers frequently use metadiscourse devices in order to create an impact on the reader or to convince them on the debated issue while the role is realised through numbers and concrete analysis results in quantitative studies.

A empirical study that compared United States Legal Discourse (USLD) and English for Lawyers (EL) aimed to reveal whether feedback on hedging had any impact on improving students' hedging strategies. In the process of experiment, EL group took three months feedback so that they could enhance their use of hedging devices while USLD group received no treatment. At the end of the feedback process, it was seen that EL group used more hedging devices and reduced assertive and direct statements while no significant progress was detected regarding USLD group, which can be seen as a testament to the positive influence of feedback on expanding hedge use. The strong relation between hedges and textual communicative function has almost always be regarded as unflinching because hedges are markers that regulate a writer's communicative style by proportioning the authorial stance on a balanced amount. Salager-Meyer (1994) discussed how the communicative objective of varied rhetorical sections of case reports and research papers in medical English could influence the categorical distribution and frequency of hedges which he called as *modulation devices* (p. 149). He found that discussions and conclusions are the sections in which hedges were heavily engaged. In conclusion, according to Salager-Meyer, the use of hedges is determined by communicative purpose of the discourse, by authors' pretension to generalization and universality, and by the force of the claim the author wishes to make.

Undoubtedly, socio-cognitive aspect of hedging devices is not a negligible issue. In spite of this, there are almost no studies regarding it except for Vass' (2004) study. Vass had a purpose of comparing two same genre of disciplines to detect textual and pragmatic perspective of hedges that were included in the field of Law. To be able to reach a conclusion, Vass compared U.S. Supreme Court opinions and American law review articles from intra-disciplinary, socio-cognitive, and comprehensive aspects. The result indicated a correlation between communicative purposes and hedging incidence, functions, and strategies. More specifically, The addresser's micro-level intensions, understanding of context, degree of shared background knowledge, and the discourse community's macro-level expectations are crucially effective factors that determine similarities and differences in hedging incidence and functions.

2.9.3. Nativity and the use of hedges

Comparative studies are famous among researchers because they provide clear results, and the descriptive outcomes after a series of comparative analyses can be construed for enriched insights that may broaden new and further horizons for other researchers' benefit. The linguistic literature engrosses a great many of studies that compare native and non-native speakers. These studies allow us to determine the similarities and differences between native and non-natives, which shed light on possible troublesome points regarding the nativity effect on the discussed issue. In that sense, a thesis (Hamamcı, 2007) examined the instance of hedges and their subcategories through a corpus compiled from research articles by NWs and NNWs of English in the field of Social Sciences. Hamamcı aimed to detect possible differences and similarities between the two groups in terms of functions and occurrence of hedges. The results demonstrated dissimilarities in terms of both quality and quantity. To state in detail, NNWs neglected adverbial and adjectival hedges while displayed preference for verbs, modal verbs, and nouns in order to realize the need for hedges. Furthermore, Hamamcı detected a sectional discrepancy between two groups. NWs had a high frequency of hedges in Discussion and Conclusion parts while the preference for NNWs was for Introduction part.

Another similar study (Yağız & Demir, 2014) made a comparison between Anglophonic and non-Anglophonic authors; namely Turkish authors. They compiled a corpora of 100 research articles, and made a cross-sectional analysis in order to reveal both sectional and overall differences. The findings proved NWs' superiority in terms of hedge frequency. However, the superiority was not sure for all subcategories of hedges; they were some subcategories which NNWs used more hedging devices with an effort of weakening their statements. For instance, NNWs used more *introductory phrases* like *it is our view that..., we feel that* etc. than NWs. Yet, there was a statistically significant difference between NWs and NNWs in overall hedge frequency in NWs' favour. However, at variance with Hamamci's study, *introduction* was not the section in which Turkish scholars included hedges most. *Discussion* and then *conclusion* were two sections where NNWs preferred to use more hedges as NWs did.

The use of first person is regarded as a metadiscourse strategy by many researchers, and it has a key role in the building of persona concerning the authorial stance (Martinez, 2005). Martinez conducted a study with a corpus of Biology that were compiled from native and non-native writers of English to detect the role of first person as a hedging device in scientific writings. Martinez focussed on the function and distributions of first person in the different sections of the corpus. Finally, he discovered that there were statistically significant differences between NWs and NNWs in all sections; namely introductions, discussions, and conclusions. What is in congruent with other studies stated earlier is that the section of results had the most notable difference

with regard to hedge frequency and function. Finally, Martinez stressed the importance of first person to empower NNWs' academic discourse.

2.9.4. Miscellaneous studies on hedging

The issue of hedging is not limited to cross-linguistic, cross-disciplinary, or comparative studies, but is an issue being investigated through a wide range of empirical and theoretical frameworks. One fashionable convention intervening into nearly all linguistic issues in our day is culture. Cultural influence on hedging has been the subject of a number of studies. With a purpose of investigating NWs' and NNWs' indirectness in the conference proposals, a cross-cultural study was conducted by Uysal (2014) through making a comparison of Turkish, Japanese, Indians, and Anglophonic speakers of English. The outcomes of the analyses showed significant differences across the cultural groups in both functions and frequencies of hedging markers According to the findings, Turkish and Japanese authors employed more hedges when compared to Indians and Anglophonic authors. Uysal evaluated the results by taking cross-cultural variations into consideration. For Uysal, Eastern and Western texts have unique discourse characteristics affecting the authorial stance.

Another study (Ozdemir & Longo, 2014) compared and contrasted the use of hedging markers in USA and Turkish MA thesis abstracts written in English. The results indicated that Turkish authors' MA thesis included more hedges than USA thesis. Ozdemir and Longo attributed the results to cultural context implied by the communication situation. Likewise, a cross-linguistic study (Mojood & Kuhi, 2014) aiming to reveal metadiscourse strategies in newspaper genre in English and Persian texts explored generic conventions and cultural factors on the use of hedges as well as other rhetorical devices. Their results disclosed that differences remained between two newspaper editorials genre in the construction of persuasion. Findings partly linked the difference to editorials' cultural and linguistic backgrounds.

The use of metadiscourse devices at different levels of English proficiency was tested by some researchers (Oliveira, Akerson, Colak, Pongsanon, & Genel, 2011) in order to elicit the implicit communication in epistemology and science during discussion panels. The samples were gathered from elementary teachers and kindergarten teachers. The researchers examined hidden social meanings, epistemological meaning and explicit thematic patters through the corpora. The results demonstrated that kindergarten teachers' conversations included mostly unhedged and direct statements whereas fourth grade teachers' discussions were predominantly tentative and hedged. The results cause the reader to think that the addressee setting affects the prolocutor's style of speaking as well as rhetorical preferences.

Academic reading necessitates a high degree of reading ability, or else, reading may become less efficient, which hinders readers to get the utmost benefit from the text. A study (Figueiredo-Silva, 2001), the aim of which was to prove the importance of rhetorical devices in improving academic reading, conducted an investigation in Agricultural college in order to pinpoint the effect of hedge knowledge over academic reading fluency. The findings suggested that hedging familiarity as a writing convention may facilitate reading of academic texts, and hence increase the efficiency of reading. Therefore, according to the results, hedging should be seen as an issue that must be learnt, accordingly courses regarding teaching academic reading are supposed to include topics to teach learners hedging devices to be able to have a more efficient reading skill.

While Figueiredo-Silva (2001) gathered attention on the importance of hedging for more efficient academic reading, Crompton (1997) had stressed its necessity for academic writing. Based on treatment given to hedges in EAP writing textbooks, Crompton stated that any ignorance of empirical use of hedging devices in EAP texts may mitigate the power of expression, which definitely would be out of favour in a setting -academe- in which persuasion is of utmost importance. Similar to Crompton, Hyland (1998b) conducted a descriptive study to be able to reveal frequencies of various lexical hedge categories in the corpora gleaned from academic journals. The findings showed that lexical verbs are the most preferred hedge type, which is followed by adverbs, and then adjectives. By providing percentile figures, he should be aimed to raise concern over the point of hedge usage density in academic texts.

Although the essentiality of hedging devices for academic writing is verified by many studies, there are suspicions on to what extent readers notice the hedging strategies applied in a writing. An exploratory investigation (Lewin, 2005) of readers' and authors' identification of hedging in scientific texts questioned a group of writers and readers in order to reveal whether hedges were mutually recognized by readers and authors, and at the end, to create a certain description of hedging by them. On the basis of findings, Lewin made three claims which are: writers' choices of hedging devices did not coincide with definitions reported in the literature; there existed a substantial divergence between writers' and readers' identification of hedges; and hedging was not directly linked to politeness by the authors. Lewis' study did not cite former conventional and ordinary reflections of hedging, but instead, carried a new insight onto linguistic literature about hedging, that is why it is unique to provide some unprecedented illustration on the issue.

To avoid being explicit during written of spoken conversations and to be careful not to seen partial, the language producer should keep a balance in his/her words by employing hedging strategies circumspectly. Medical discourse is a medium that absolutely requires the use of language attentively not to cause an undesired psychological effect on the interlocutor. In that sense, Varttala (1999) investigated the communication functions of hedges in scientific texts and in specialist daily discourse on Medicine. It was demonstrated that popular scientific articles on Medicine do not include as many hedges as in specialist daily conversations. In other say, mutual conversations between interlocutors included more hedges than those in unilateral scientific texts. Likewise, Lehtinen (2013) compared clients' and doctors' talk about medical information in terms of hedging usage. Lehtinen analysed doctors' responses to patients' presentation of personal information, and discovered that doctors' interactional patterns in the counselling sessions displayed an orientation of tentative language, particularly when commenting on the symptoms and prognosis of the patients.

Systemic functional linguistics is a system that relates language structures to language meaning and functions. In other words, it is a system that adjusts grammar to interactional and communicative utilization. A study (Yang, Zheng, & Ge, 2015) lent credibility to the use of systemic functional linguistics functioning as epistemic modality in English-medium medical research articles. After analysing of 25 research articles from s systemic functional perspective, the researcher argued that writers in medical field depend on tentative, objective and reserved way while making their claims, which may be seen as a significant sign regarding the importance of hedges for writings on medical.

As stated before, one of the main and crucial functions of rhetorical devices is the power of persuasion over the readers. Efficient and appropriate usage of hedging may leave a power of sanction on the interlocutor. The essentiality of persuasion is needed at different levels in varied fields. Patent application is one of the fields that persuasion is of great importance, if the commercial interests of inventors are desired to gain. Aware of the significance of hedge knowledge in patent applications, Pellon and Guinda (2010) made a descriptive study with regard to U.S. patents. To efficiently safeguard the value of hedges, following the analyses of 343 US electro-mechanical patents, they found that hedges are chief in the vague quantifications such as *most*, *many, several, a few* etc. Also, it was suggested that a balanced coexistence of hedges and boosters would maintain the persuading influence in patent writing.

As important in patent applications, the power of persuasion is crucial in theses or dissertations. As known, the principal purpose of a thesis or dissertation is to prove the main theme of the study, hence, to corroborate the truthiness and necessity of the issue discussed throughout the thesis. To be able to realise the purpose, the writing should have a persuasive language, which only could be done through appropriate rhetorical devices. Kondowe (2014) investigated dissertation abstracts in order to reveal hedging and boosting devices that function as interactional metadiscourse. Sixty abstract analyses demonstrated that hedges were used three times more than boosters, which signalled dissertation writers' prevalence of low commitment.

Due to the fact that comments are evaluations that may affect addressee's psychological state, too assertive or mitigated language may indispensably give rise to undesired psychological situations particularly in which education is the primary concern. In the process of feedback, too many certainty markers could discourage the learners while a very loose language could partly prevent to convey the message to learner. From Birmingham University, Lee (2013) measured the amount of hedging in academic written feedbacks. More specifically, Lee only investigated the use of epistemic modal hedges, and found that *could*, *might* and *would* are the top three modal verbs used in the linguistic corpus. Therefore, the top three modal verbs that Lee explored would be better if used in the process of giving feedback not to use extreme linguistic structure.

The literature includes some intra-disciplinal studies on hedge usage. One of them (Buitkienė, 2008) investigated hedges in newspaper discourse. With an attempt to analyse distribution and occurrence of hedging devices, the data were gathered from news stories and editorials, and analyzed. The findings showed that both editorials and news stories included considerable number of hedges, the number was slightly higher for editorials, though. On the other hand, Clemen (2002) intended to prove the occurrence of hedges in economic texts, and analysed periodicals dealing with economic affairs and political economy. The results proved the epistemic use in English journals of Economics is of great interest.

Talking about a prospective event or trying to foresee an expectation is not easy at all; particularly if the remarked statements are recorded. Not to be mistaken about a former statement, the language must be clear from directness as well as other intensity and certainty markers. If used befittingly, the use of tentative and indirect language may work as a shield that protects the speaker against possible critics. Mclaren-Hankin from Heriot-Watt University conducted a study in order to identify the relationship between hedging and forward looking statements. The corpora was gleaned from press releases. The results showed that certainty markers must be held off while talking about situations on which the writer cannot be 100 percent sure, and a flowery i.e. indirect language must be preferred.

2.10. Discussions of Boosters

This title was further divided into four subtitles as *Cross-linguistic studies on boosting; Cross-disciplinary and intra-disciplinal studies on boosting; General descriptive and comparative studies on boosting;* and *Miscellaneous studies on boosting.* Under the first subtitle, boosting preferences in native and target languages were written down so that L1 influence, personality traits or writing characterizations on boosting usage could be revealed. In the second subtitle, studies that compared and contrasted different disciplines were provided. Furthermore, information on how boosting is used intra-disciplinal was provided so that disciplinal difference in employing boosters could be noticed. In the third subtitle, studies written in English by those from different language backgrounds were provided to illustrate the differences between native and non-native writers of English in terms of using boosters in academic

texts. This subtitle, in addition, included descriptive studies like corpus investigations. The last subtitle included various studies investigating the issue of boosting from varied perspectives.

2.10.1. Cross-linguistic studies on boosting

A dissertation (Sanjaya, 2013) that examined boosting structures in English and Indonesian research articles compared and contrasted English and Indonesian scholars. The within-language comparison findings demonstrated that academics from two language background did not utilize boosters at comparable rates. Besides, the frequency of boosters was not influenced by sociocultural context in which RAs were produced. In brief, no statistically significance were found between English and Indonesian written RAs in terms of boosting strategies and frequencies. Curiously enough, the results suggested that boosting, as a rhetorical feature, was used by both groups of scholars to build up a particular identity.

As has been repeated earlier, the generalization of a study finding is not basically an easy task because it is possible to encounter some unconsidered factors such as cultural, contextual, or personality factors. As in Sanjaya's, a thesis (Alg., 2012) was carried out to investigate whether there was any significant difference between L1 and L2 written productions of Turkish authors of English. Furthermore, Algı aimed to uncover L1 interference of boosting devices in the process of L2 argumentative paragraph writing. The result showed the L1 paragraphs were slightly employed more certainty markers than those in target language. Shortly, Algi lent credibility to the claims that Turkish authors are a little more certain while they write in their mother tongue. Likewise, with a purpose of exploring cultural influences and L1 interference, Uysal (2012) examined argumentation across L1 and L2 writings of Turkish authors. Analyses made within a cultural-educational framework showed a strong tendency in participants in terms of using assertive devices such ase overstatements and intensifiers as well as hedging devices such as denials and disclaimers. As a result, it was concluded that there existed common patterns in Turkish authors' writings used in both similar and different ways across L1 and L2.

Some Iranian researchers (Yazdani, Sharifi, & Elyassi, 2014) investigated articles. They had a claim of illuminating the role of boosters in English and Persian

news articles written on the same issue. After the analyses of randomly collected 30 English and Persian news reports, they concluded that Iranian news articles used a more certain language at significant rate when compared to American news articles. Similarly, another study (Jalilifar & Alavi-Nia, 2013) investigated televised American and Persian presidential debates. The result demonstrated a significant difference between two presidential debates in terms of not only frequency but functional use of boosters. The diverse tendencies towards employing boosters contained sub-categories of boosters which are: *intensifying, personal involvement, boosting epistemic, force-indication¹, expressing emphasis, accentuating, source-tagging, seeking solidarity,* and *presupposing verification.* Of all these sub-categories of boosters, only bounding emphatics did not differ in two presidential candidate was higher than one in American presidential candidate.

Based on a corpus of 649 abstracts gleaned from journals of applied linguistics, Hu and Cao (2011) examined boosting usage in Chinese and English mediums. Qualitative analyses demonstrated that English-medium journals featured significantly more hedges when compared to the abstract published in Chinese-medium journals. Furthermore, the number of boosters used in the abstract of Chinese-medium journals was markedly higher than those in English-medium journals. Conclusively, to state cross-linguistically, Chinese authors are more assertive in their statements, and the nature of authorial certainty and confidence is common in Chinese-medium journals.

The curiosity on cross-linguistic variations of metadiscourse gave rise to a study (Lee & Casal, 2014) that analyzed interactive metadiscourse categories such as transitions², frame markers³, endophoric markers⁴, code glosses⁵ as well as interactional metadiscourse categories like hedges, boosters, and attitude markers.

100 theses written in English by Anglophonic speakers and 100 theses written in Spanish by L1 Spanish speakers constituted the corpus. The findings of the comparative

¹ Devices used by the speaker in order to lay particular emphasis on the illocutionary force of the statement; e.g. I want you, In fact, I ask you etc.

² Devices stating internal relationship between discourse parts such as *also*, *although*, *therefore* etc.

³ Devices indicating text boundaries and structures, e.g. *first, overall, objective, now* etc.

⁴ Devices directing a reader to other text parts

⁵ Items functioning to clarify writer's intended meaning, like *i.e.*, for example etc.

analysis marked a cross-linguistic differences for overall and categorical frequencies of metediscourse devices. If to talk about only the results of boosters, which will be in association with the present title, the number of boosters as well as hedges was included in the theses written in Spanish than those written in English, which is an indicator regarding assertive and direct writing styles of Spanish speakers.

In some cases, hedging and boosting are considered as supplementary communicative units functioning as rhetorical devices. Aware of that, Viktorova (2014) analysed discourse markers in Russian and English medium research articles. The study had a purpose of investigating the dependence of boosters in the course of language dialogue. On the basis of comparative discourse analyses, Viktorova ended with a conclusion that dialogue communications included more boosters than monologue communications, which is to say that the use of boosters is more common in spoken discourse than in written discourse. Furthermore, it was revealed that boosters prevailed in Russian data more frequent than in English data; in other words, English discourse is non-imperative and softened in comparison with Russian data.

The differences between different language speakers in terms of using boosting are not surprising because a review study (Khedri, Heng, & Hoon, 2013) that investigated cross-linguistic and cross-disciplinary perspectives on metadiscourse devices in academic writing already set forth that there are varied tendencies on metadiscourse use by speakers from different language background.

2.10.2. Cross-disciplinary and intra-disciplinal studies on boosting

The literature presents some cross-disciplinary as well as intra-disciplinal studies on boosting. One cross-disciplinary study (Vázquez & Giner, 2008) that contrasted Biology, Marketing, and Mechanical Engineering in order to detect their discourse styles showed that the authors in Mechanical Engineering appeared more precise, direct, and certain about the truth of their affirmation. Therefore, using boosting is generally a common habit among authors in Mechanical Engineering. In association with Vazquez and Giner's, this time intensity markers in Electrical Engineering and Applied Linguistics were contrasted (Behnam & Mirzapour, 2012) in an attempt to investigate the frequency, type and functions of boosters employed in both disciplines. In contrast with Vazquez and Giner who found a high frequency of intensity markers in Mechanical Engineering which is a hard science discipline, Behnam and Mirzapour discovered that Applied Linguistic included intensity markers at a rate higher than in Electrical Engineering which is a hard science discipline as well like Mechanical Engineering. Both studies demonstrated that it may not be easily possible to state that hard science use a more precise language when compared to soft science, or vice versa. It seems that disciplinal differences remain in terms of using boosters.

With a curiosity on whether hard or soft sciences use a more precise language through the use of boosters, three researchers (Khedri, Ebrahimi, & Heng, 2013) from Malaysia conducted a study on the issue. Soft sciences contained ELT and Economics, and hard sciences included Biology and Civil Engineering. After the analyses of sixteen RAs, the results did not demonstrate a statistically significant difference between soft and hard sciences in terms of booster frequencies, though there were noticeable differences. According to the findings, ELT had the highest ratio for per 1000 words with 35, and Economics had a word average of 27.7, which both were disciplines in soft science. Meanwhile, both Biology and Civil Engineering had a ratio of word average lower than ELT and Economics. In brief, a significant difference was not yielded between soft and hard sciences in terms of using boosters; nonetheless, it cannot be mentioned about an absolute non-significance.

As known, examination of a large corpus requires tough effort. With an effort to examine the roles of boosters in academic texts from the aspect of persuading readers on the validity of author claims, Peacock (2006) constructed a corpus of 1,250,000 composed of Environmental Science, Physics, Public and Social Administration, Language and Linguistics, Law, and Business; then analyzed them through a mixed method. The results provided some valuable implications for our understanding of a developed knowledge of boosting, which was seen an essential competence in research writing. Peacock concluded that there existed a considerable interdisciplinary variation in the form of boosters among disciplines: for example Language and Linguistics was the field that hosted the highest ratio of booster per 1.000 word; 10.98, which was accompanied by Law; 10.05. Similarly, Pho (2008) aimed to explore the rhetorical moves and the linguistic realizations of authorial stance in the fields of Educational Technology and Applied Linguistics. The analyses discovered that writers had a strong inclination for semi-modal and modal boosters in the field of Applied Linguistics. If we

summarize, it seems that Language and Linguistics are the fields that mostly use metadiscourse devices like boosting, as shown in the former study (cf. Khedri, Ebrahimi, & Heng, 2013).

Different from other studies with its purpose, the relationship between CEOs' statements and financial performance of the company was investigated in terms of emphatics usage by Maria (2008). The results simply showed that CEOs' statements were not influenced by the company's financial performance when the overall use of boosters was taken into consideration. Another study that seems distinctive from other studies in the literature belongs to Koutsantoni (2004) who aimed to determine the expressions of certain knowledge in scientific research articles. Koutsantoni compared Electronic and Electrical Engineering in terms of authorial involvement from the aspect of certainty markers. Thanks to analyses, it was inferred that certainty markers assisted authors in asserting their authority while presenting claims. Furthermore, it was pointed out that strong appropriate authorial stance assist to gain readers' agreement and community consensus.

The studies in the literature that has been stated in here so far compared or contrasted different disciplines to one another or merely one-disciplinary. On the other hand, a researcher (Abdi, 2012) who aimed to reveal evidence marking investigated a corpus of research articles regardless of their field of discipline. Abdi concluded that appropriate employment of metadiscourse strategies including boosters are indispensible in order to strengthen the evidentiality in research article writing, therefore they are suggested for writers.

2.10.3. Descriptive and comparative studies on boosting

Comparative Studies

Among many comparative studies existing in the literature, Vassileva's (2001) study is one of the most crucial ones. Examining English and Bulgarian academic texts cross-linguistically and comparatively, Vassileva aimed to reveal the degree of commitment and detachment in English, Bulgarian, and Bulgarian English academic writing, hence to reveal similarities and differences from frequency and pragmatic perspectives. It was a cross-sectional study, therefore Vassileva provided different results for different parts of the data: namely, introductions, discussions, and

conclusions. The overall number of boosters in Bulgarian English appeared to be slightly over than native English. Despite this, the results did not yield a statistically significant difference because the range was not large ostensibly.

Chen (2012) conducted a contrastive analysis of epistemic expressions in native and non-native Chinese writers of English by analysing written documents obtained through examinations. Based on the examination of the corpus, the study showed a great similarity between native and non-native Chinese writers in the total number of epistemic devices. However, epistemic device diversity were low in NNWs documents, and unwarranted strong assertions were markedly included in NNWs written texts when compared to those of NWs. Regarding non-native Chinese writers of English, Chen suggested that there should be an improvement in the knowledge of appropriate commitment use.

Akin to Chen's study, Kim and Suh (2014) made a study to investigate epistemic rhetorical stance of L1 and L2 (Korean) students' English writing. Based on the consideration that a writer's argument should be delivered with an appropriate degree of assertion and mitigated expression, their study aimed to examine whether positioning statements was with a balanced qualification, whether certainty statements remained a challenge for L2 writers, and whether there was any difference between Korean writers of English and native writers in using the expression of certainty. The findings indicated that Korean writers of English took a stronger stance in their claims compared to their Anglophonic counterparts. Furthermore, Korean writers' lexical diversity was narrow with simpler constructions. The study provided almost exactly the same results with Chen's, who examined Chinese students. It seems that Korean and Chinese writers, both from far East, have similar authorial voices -assertive- in their English reports.

Descriptive studies

Amplifiers, which is a sub-category of boosters, are lexical words such as *very*, *absolutely*, *so* etc., which function to increase the authorial commitment to the statements or claims. A corpus-based study (Xiao & Tao, 2007) aimed to explore amplifiers in British English from sociolinguistic and extralinguistic perspectives. The researchers determined 33 amplifiers across different dimensions which are: gender, age, publication data, discourse mode, register, education level, audience gender, and

audience age. The study analyzed amplifiers in two discourses namely written and spoken. Regardless of categories that the researcher constructed, it was detected that *very, quite,* and *really* are the most frequent amplifiers used by all groups in both spoken and written discourse. As for the least used amplifiers, the results presented *absolutely* and *bloody*. Thanks to the study, it is understood that writers have a common tendency for some types of amplifiers.

Another corpus-based study (Aull & Lancester, 2014) compared freshman and senior students at a university with veteran authors who made their writing published. The researcher examined over 4,000 argumentative essays to reveal freshman students' linguistic expressions of stance in comparison with those of upper-level students' and professional authors'. The findings showed that freshman students shared linguistic stance markers in a similar way; however great differences emerged between freshman students and more advance writers. According to the results, freshman students used boosters more than upper-level students and advance writers; particularly with amplifiers of *very* and *much*.

In an attempt to explore a group of advance Italian students' use of boosters in their writing, Morgan (2008) built a small-scale corpus. The results illustrated that student writers rely heavily on modal verbs, and overuse of informal devices of spoken discourse. Another finding which is in line with other non-native writers' characterization is that Italian student writers had a tendency to overstate their commitment to propositions.

Interpersonality in Linguistics is an issue being fascinated by some researchers (e.g. Beuchot & Bullen, 2007; Lorés-Sanz, Mur-Deñas, & Lafuente-Millán, 2010; Hewings, Lillis, & Vladimirou, 2010) but it seems that only a study by Gillaerts and Velde (2010) associated interpersonality and metadiscourse in academic writing from boosting perspective. The results indicated that the use of interactional metadiscourse including boosters has undergone a number of changes in the course of the past three decades. More specifically the findings showed that the degree of interpersonality realised by boosters and other metadiscourse devices like hedges and attitude markers has diminished over time. Shortly, Gillaerts and Velde claimed that the use of boosters by academics has dropped, which may be a new rhetoric strategy of dynamic academe.

As has been stated before, rhetorical devices are of great importance in creating a persuasive text. Keeping that knowledge on the top, Mills and Dooley (2014) aimed to study hedging and boosting in order to teach how to use these two rhetorical devices. For them, writers should be completely aware of boosters to be able to realise the effective power of rhetorical persuasion; therefore, novice writers need to be explicitly taught a range of boosting techniques and they should have an expanded lexicon of boosters. Only in this manner, a writer could develop his/her effect on reader and make them accept the idea she/he proposed.

2.10.4. Miscellaneous studies on boosting

The issue of persuasion through intensification is not restricted to academic studies; to the contrary, it has an area of influence ranging from very trivial issues to the issue of utmost importance.

Political discourse is one of the areas in which persuasion is everything for the prolocutor to be able to create a profound impact on addressee. Accordingly, with an effort to explore modality markers in political speeches, Dontcheva-Navratilova (2009) analysed three Directors-General of UNESCO who spoke at international conferences. The results supported the views claiming that deontic modality is key in constructing an ideologically-based discourse. Also, it was detected that the Directors-General of UNESCO had an inclination to use modal verbs like should, have to, and must. In a similar way, Sandova (2011) allegedly stated that modifying the illocutionary force of propositions in political interviews that a speaker involved manifests its importance apparently, which may be succeeded through hedging and boosting. By holding that allegation, Sandova investigated boosters that function as pragmatic conventions in political interviews from speaker-oriented perspective. The results demonstrated that speaker-oriented boosters have various pragmatic functions in the genre of political interviews depending on the contexts they are used. In detail, boosters perform in a way to provide subjectivity, assurance, agreement, certainty, and a higher degree of speaker involvement and commitment. Subjectivity was the most frequent pragmatic function that speaker-oriented boosters performed. Consequently, both studies manifest the importance of boosters in political discourse.

Degree modifiers and epistemic stance are not free from the effect they impose on one another. Aware of that knowledge, on the basis of British National Corpus, Simon-Vandenbergen (2008) conducted a descriptive study to obtain information on the use of two adverbial degree modifiers: *almost certainly* and *most definitely*. The research had a desire to detect semantic-pragmatic development of the adverbial modifiers from the aspect of speakers. The results showed that the adverb *certainly* was used for formal registers while *definitely* characterized private and informal registers. Thanks to the study it can be understood that the adverb *certainly* may more appropriately act as a booster in academic genre than *definitely*.

Salek (2014) made a holistic study by examining interactive and interactional markers through English research articles. The results showed that of all interactional markers, boosters were the most frequently used markers in total although there were sectional differences. In line with Salek's research, Hyland (2000b) aimed to learn whether student writers used boosters or hedges while they were modifying their claims. The results manifested that student writers largely attended to the boosters than hedges. However, another study (Kondowe, 2014) that was edited from a dissertation discovered that boosters were not common as much as hedges in PhD dissertations. In fact, the frequency differences regarding boosting may stem from internal or external factors, which is why a study is not corroborated by another in general. Concerning frequency differences or inappropriate use of boosters, an empirical study (Alward, Mooi, & Bidin, 2012) suggested that explicit instruction may have a positive effect on the use of booster.

2.11. Metadiscourse and Gender

At first flush, the relation between metadiscourse and gender might not be obvious, de facto authorial voice is profoundly in reciprocation with gender. Possibly for the first time, Robin Lakoff (1973) built a straightforward bridge between characteristics of women's language and linguistic forms through her study titled *The logic of Politeness*, and since then on the researchers have been attracted by the issue that might be investigated from a linguistic perspective.

The relationship between metadiscourse and gender can be investigated from many different perspectives such as politeness, face-saving, face-threatening, conversational contact, conversational maxims, social norms etc. Specifically, two subcategories of metadiscourse -hedging and boosting- were reviewed in order to reveal their relevancy with gender; as has been repeatedly indicated, the objective of the present study regarding metadiscourse devices is to investigate lexical hedges and boosters but not all others, which would be a venture nearly impossible to sort out.

The literature review showed that some studies investigate either hedging or boosting on sexual basis while some other studies studied both in the same research. The very first research seems belonging to Holmes (1990) who studied hedges and boosters in men's and women's speech. Holmes ended that women and men have differentiated in style of speech, accordingly that women were more submissive while males more authoritative in the course of speaking. In other words, women had included more hedging devices while men preferred to speak in a way that includes certainty markers in higher frequencies when compared to women. However, in later study, Holmes (1995) claimed that women did not use hedges in order to have a tentative language but to create interpersonal warmth, which may be thought as a politeness strategy.

Dixon and Foster (1997) studied hedging and gender from gender difference. A sample of South African students comprised of males and females were gathered, and the corpus were constructed through 52 dyadic conversations. A number of findings were picked up, one of which was that the impacts of gender was eclipsed by contextual influences. With regard to hedge frequency, no statistically significance was detected for the speaker's gender. Furthermore, both gender used a tentative language when talking to male addresses. However, men deployed more hedges than women while addressing to female speakers.

The speaking style is not free from other external or internal conventions such as cultural, political, or even regional reasons. In other words, the high frequencies of hedges in a female conversations would not be correct to generalize to all female speakers in the world because as Dixon and Foster (1997) demonstrated that contextual influences have a crucial part in selecting words that will constitute the speaking style. Not only because contextual influences but other influences raging from religion to daily gender expectation are influential factors determining the speaking style of the speaker. Therefore, a study aiming to reveal gender differences in using rhetorical devices is to be conducted locally, and must be very tentative while generalizing the results acquired.

Role of interaction and stance-taking of Iranian academic authors were investigated on gender basis to be able to reveal mood and modality employed in Biology and Linguistic research papers (Aboulalaei, 2013). The analysis of the data collected from 60 research papers in total demonstrated that female authors slightly tended to metadiscourse devices more than males. Another Iranian study (Yeganeh & Ghoreishi, 2014) with a purpose of exploring the role of gender differences in employing hedges and boosters analyzed 40 English written research papers by Iranian researchers. The results was in harmony with Aboulalaei in that Iranian females tended to use more indirectness while expressing their claims whereas Iranian men utilized more boosters, which is a result that showed the significant role of gender on metadiscourse use. A third research was conducted by Ansarin and Bathaie (2011) in order to examine the gender role in text construction by investigating the linguistic realizations in female and male writings. The results were not at variance with the two other studies that were made with Iranian females and males. A statistically significant difference was yielded between females and males in terms of hedge frequency. Compared with those of males' articles, Females' articles contained more hedges.

A similar result to those of Iranian researchers was obtained by Vasilieva (2004) who compared Russian male and female texts written in English to acquire a scientific finding on adverbial hedges and boosters. On the basis of statistical analyses, Inga indicated that amplifiers such as emphatic adverbs and certainty adverbs engrossed male texts more than they did female texts. In addition, the hedges used by males were mostly used for "explanatory" reasons not reducing authorial voice or commitment.

Al-Harahsheh (2014) investigated phonological variations and conversational styles from gender perspective. After analysing twelve 30 minutes dyadic conversations, the findings claimed that Jordanian women are linguistically more conservative when compared to Jordanian men, which developed a theoretical framework that distinguished linguistic styles of participants on gender basis. The researcher did not directly mention about hedges or boosters but being conservative necessities to talk in an indirect way, which is a feature of hedging. Therefore, it can be

claimed that Jordanian women preferred to use hedges in their conversations more frequently than Jordanian men.

People leave a trace of personality while composing even a simple text. A Indonesian researcher (Pebrianti, 2013) aimed to investigate Indonesian women's language features by analysing the written text of a blog spot. Pebrianti categorized language features into nine *as emphatic stress, superpolite forms, avoidance of strong swear words, empty adjectives, intensifiers, precise color terms, hypercorrect grammar, lexical hedges,* and *tag questions*. The result demonstrated that intensifiers or boosters appeared to be the most frequent language feature used by female bloggers; a result which is out of sync with other studies that found low booster frequencies in women's speech.

2.12. Stylistic Appropriateness

Of all writers who produce texts for different genres, academic writers are those who need to be very sure about appropriateness of their communication. It is definitely true that the style of a particular text must be consistent, but to be proper for the audience as well as the message being conveyed is the other convention of even a simple piece of writing. The use of correct vocabulary (formal or informal), the jargon that the text written with, competence of grammar, etc. are the very prevailing factors that are known by almost all writers in academe; however, not all are limited to them as the recent developments on stylistic have obviously put forward.

This literature has provided some new windows on stylistic appropriateness in academic writing. The stylistic appropriateness was used to be related to the successful use of vocabularies, grammar or complexity of the sentences, but it seems that there is a certain steering from, what used to be mechanical accuracy towards rhetorical competence, which necessitates a meticulous discourse equilibrium without being too assertive or too unpretentious. No matter how complex data or authentic propositions an academic text has, any piece of writing that cannot perform rhetorical strategies in appropriate manner may not create the desired effect, and may be considered of no use. Therefore, not to have a non-academic style, scholars should take the vitality of metadiscourse devices into consideration.

On the other hand, assertiveness, degree of formality, and politeness strategies are not stable elements of style in every setting; to the contrary, they vary from one culture or language to another (Bardovi-Harlig, 2001). In other words, the common habit of discourse among nations are not exactly the same as some studies in this chapter showed. In other words, depending on the contexts, nationalities, background knowledge, or culture, it is obvious that academic writers show similar tendencies about whether to mitigate or boost the statements. But, the existing literature demonstrated that academic writers need to be independent from national, personal, and psychological influences, and need to agree with the rules regarding rhetorical strategies if the focus is reader persuasion over the preposition.

In sum, it is a well-established fact that a sensitive balance between boosting and hedging is needed in the course of writing. Those who do not achieve the fragile balance are in danger of being seen too assertive or too unpretentious, which both cases adversely influence the quality of writing together with writer credibility.

2.13. Factors Affecting Rhetorical Features

The theoretical framework so far illustrated that there exist differences in using hedges and booster. The main source of difference seems related to the writer's nationality. Then, it turned out that knowledge of rhetoric may also be a reason of difference between authors. What is meant with "knowledge of rhetoric" does not refer to a situation in which a user has a degree of knowledge of rhetoric or metadiscourse indeterminacy from lexical or grammatical perspective, but refers to a situation the author is not aware of the importance of rhetorical strategies on readers. However, thanks to the researchers who examined the issue from varied perspectives by shifting their points of views, we know that there may be other factors affecting rhetorical features that the authors use. Accordingly, the present study detected other factors as social and intra-personal.

2.13.1. Social factors

As has been described in the previous titles, rhetorical strategies mainly hedging and boosting are not restricted to a certain set of factors because the influence of rhetorical strategies has a much more diameter than it used to be thought. As far as it is understood from this literature review, social factors might be important in determining the reasons why an author use more hedges or more boosters while making a claim or having a statement. Therefore, the question is "do aspects of social factors have any significant impact on the frequency of hedges and boosters used in academic writing?".

As regards the relationship between writing and the preferences of rhetorical devices, Connor (2004) stated that writing is increasingly considered as socially situated, and this socialization may give rise to special consideration to purposes, audience, level of perfection, and correspondingly may necessitate varying amounts of attention to detail, revision, and collaboration. Connor linked the use of rhetorical devices to the environmental powers occurring around, which is why contextual factors seemed crucial for her. Alike to Connor's propositions, Mauranen (2001) emphasized the assumption that "in order to arrive at an explanation of why texts the way they are, it is necessary to draw on the social contexts where they occur" (p. 45).

Confronted a similar question, Sanjaya (2013) had a few determinants of rhetorical differences among authors which were: degree of homogeneity of readership, the size of the expected readership, and more importantly cultural characteristics. To clarify Sanjaya's first determinant, degree of homogeneity of readership, it can be said that hedges and boosters are two rhetorical devices that refer to the diversity of voices on the topic or on the issue being raised by the authors. Because of that, degree of voice may change depending on readers' average knowledge and expectations on the issue; for example, authors who have a certain type of audience will possibly talk with more boosters than authors who have a heterogeneous readership because tastes and expectations change from reader to reader, which is a situation that cannot be kept in the background.

The second determinant, the size of readership may be discussed in terms of the size of the community interested in the issue that the author argued. The fewer an author has readers, the better they are know by the author, hence, he/she can accordingly adjust his/her degree of certainty, assertiveness, or indirectness on the statements and claims. It is a common knowledge that there is a correlation between the size of a group and the intellectual or ideological diversity. Therefore, essential to the author's good, the way of addressing must be away from being too decisive or unpretentious not to create an undesired effect even for a small part of audience.

The last determinant, cultural characteristics is apparent to be the most important determinant of all because the importance of culture on hedging and boosting devices has been repeatedly provided in the previous titles in this chapter. Cultural context in which the author was raised is not independent from his/her style of addressing and writing, and affects rhetorical features of academic writing, as substantiated by the findings in the literature (see subtitles 2.9.4. and 2.10.3.). Regarding the effect of culture on rhetorical strategies, Hyland (2006) indicated that "every community is composed of individuals with diverse experiences, backgrounds, expertise, commitments, and influence and who differ in how far they subscribe to its various goals and methods, participate in its diverse activities, and identify with its conventions and values" (p. 19). Based on that premise, it will not be incorrect to express that the perceived value of an addressing is sure to change from one community to another sometimes in fundamental changes. Writing confident may leave a positive effect on readers in some communities while in other communities it may be thought as if the author had an intentional purpose of overstating a trivial statement or claim. Therefore, the culture in which both authors and readers have stayed is an influencing factor that determines the way of addressing; whether assertive or mitigated. Shortly, Whether an author should be self-effacing or self-assured is a matter of culture; together with other determinants.

2.13.2. Intrapersonal factors

It is easily understood from what has been reported so far that particular emphasis was given to external influences on usage of boosters and hedges. Therefore, grave reservations may be expressed about argumentations that solely focus on environmental factors in terms of explaining differences or preferences among authors. In other words, of all factors which are offered as determinants on the use of rhetorical devices, intrapersonal factor is one of the major factors determining authors' way of addressing in the process of writing.

It is believed that the use of language carries some individualistic features affecting the authors' tone. Even the writer's personality is an important component in establishing his/her own discourse; being mild-tempered or being agitated affects the selection of vocabulary, the number of boosters as well as hedges, and hence the discourse.

Apart from the author's personality temper, emotional commitment to an issue may also be a determinant in terms of using rhetorical devices. The authorial stance towards a situation which the author finds affective might have a profound effect in constructing the meaning through rhetorical devices fluctuating between the overuse or underuse of hedges and boosters, or other rhetoric devices. In other words, it is possible an author be akin to a point of view, and hence, it is possible she/he shows a tendency to the side which she/he supports through the use of boosters.

Other salient intrapersonal determinant is author's culture. Culture to be discussed here is different from the concept of culture discussed in the previous title in that intrapersonal culture is an issue concerning the cultural setting in which the author was raised while the concept of culture in the previous title pertains to the cultural setting that the author should be in tune with.

In brief, except of social factors that affect the use of metadiscourse by authors, intrapersonal factors are also important determinants that determine the style of writing. Therefore, it had better authors be aware of such external and internal factors that may influence their language in the course of academic writing.

CHAPTER III

METHODOLOGY

3.1. General Hypotheses

Based on literature review, the present study proposed some null hypotheses. It is anticipated to reach concrete results regarding the null hypotheses at the end of statistical analyses.

A. Null hypotheses related to lexical collocations

A.1. NWs may include lexical collocations in their RAs more than NNWs may in overall; however NNWs may outperform in some types of lexical collocations.

A.2. No null hypothesis for the research question A.2.

A.3. In overall, there can be statistically significant differences between NWs and NNWs in terms of using lexical collocations; however when separately analysed, there may not be any difference at certain types of collocations.

A.4. No null hypothesis for the research question A.4.

B. Null hypotheses related to lexical hedges

B.1. NWs may include lexical hedges in their RAs more than NNWs may in overall; however NNWs may outperform in some types of lexical hedges collocations.

B.2. NWs may be superior than NNWs in terms of lexical diversity of hedge.

B.3. In overall, there can be statistically significant differences between NWs and NNWs in terms of using lexical collocations; however when separately analysed, there may not be any difference at certain types of hedges.

B.4. No null hypothesis for the research question B.4.

C. Null hypotheses related to lexical boosters

C.1. NNWs may include lexical boosters in their RAs more than NWs may in overall; however there may be mutual differences between NWs and NNWs in terms of some lexical boosters. C.2. NWs may be superior than NNWs in terms of lexical diversity of boosters.

C.3. In overall, there can be statistically significant differences between NWs and NNWs in terms of using lexical boosters; however when separately analysed, there may not be any difference at certain types of hedges.

C.4. No null hypothesis for the research question C.4.

3.2. Corpus

The corpus of the present study were composed of total 200 English written scientific articles on English Language. The principal motive behind choosing articles only on English language is that rhetorical devices are said to have changed across disciplines (Hyland, 2005b). The corpus were built from two author groups in equal amount; i.e. 100 articles were collected from Turkish authors' articles written in English, which made up the corpus for NNWs; while the rest written by Anglophonic authors, which made up the corpus for NWs. Verification about author nativeness was not ensured by contacting them. Author status of being native of non-native of English was presumed based on his/her name or nationality. In articles where more than one scholar is involved, the corresponding author or the first author in the affiliation was regarded as the writer of article, hence the nationality of the first or corresponding author determined the status of nativeness of all others.

The articles were selected randomly from diverse journals that accept papers on language education, language teaching, or other language pedagogy issues. The Table 3.1. provides the name of journals with which the present study constructed the corpus for NWs, and from which the number of articles that were picked up.

		The name of the journal	Number	%
	1	ELT journal	30	30
	2	English for Specific Purposes	13	13
	3	System	10	10
	4	Applied Linguistics	8	8
Ws	5	Language Learning	8	8
Journals for NWs	6	TESOL Quarterly	8	8
for	7	Language Teaching Research	5	5
als	8	Journal of Second Language Writing	4	4
ILL	9	Language Teaching	4	4
Jot	10	First Language	3	3
	11	RELC Journal	3	3
	12	Journal of English for Academic Purposes	2	2
	13	Journal of Second Language Writing	2	2
Tot	al		100	100

Table 3.1.The Journal Names which the Corpus were Gathered from for NWs.

As can be seen from the Table 3.1., the corpus were built through 13 different journals. *ELT Journal* made up the largest proportion in NW corpus with 30%, which is followed by *English for Specific Purposes* and *System*; 13% and 10% respectively. On the other hand, *English for Academic Purposes* and *Second Language Writing* are journals from which articles were received in fewest number. Similarly, the Table 3.2. obviously provides the distribution of journals from which the articles for NNW were picked up.

Table 3.2The Journal Names which the Corpus were Gathered from for NNWs.

		The name of the journal	Number	%
	1	Journal of Language and Linguistic Studies	40	40
×	2	Hacettepe University Journal of Education Faculty	16	16
Ž	3	The Reading Matrix	8	8
Ź	4	Journal of Language and Literature Education	7	7
Journals for NN	5	Çukurova University Faculty of Education Journal	6	6
ls f	6	Turkish Journal of Education	6	6
rna	7	Novitas-ROYAL (Research on Youth and Language)	6	6
ino	8	Atatürk University Journal of Social Sciences	4	4
ſ	9	ELT Journal	4	4
	10	Turkish Online Journal of Qualitative Inquiry	2	2
	11	International Journal of Languages' Education and Teaching	1	1
Tot	al		100	100

Eleven journals in total built the corpus for NNWs, as seen from the Table. It is apparent from the Table that *Journal of Language and Linguistic Studies* is the journal that is made the most use with 40%. The journal number for NNWs does not include as

many journal as does for NWs, which may be because Anglophonic authors have a wider range of publishing opportunity than Turkish authors thanks to language proficiency advantage. *Hacettepe University Journal of Education Faculty*, a prominent journal in Turkey, takes the second rank in article number constructing the corpus for NNWs. Regarding the journal that comes from behind in picking up articles, Turkish Online Journal of Qualitative Inquiry manifests itself with the number of two; and International Journal of Languages' Education and Teaching with a number of one.

Only articles written on English language were compiled and analyzed because hedging and other features of opinion positioning devices are said to differ across disciplines (Hyland, 2005b). To be able to see synchronic variations on the use of lexical collocation, hedging, and boosting, articles published only in the last eight years were gathered. Not to lead any reliability concern, it was tried to compile the corpora from equi-length articles (see Table 3.3).

Table 3.3 *Corpus size in words*.

Author group	Tokens	Types
Native writers	601025	24076
Non-native writers	590109	22427
Total	1191134	48152

As seen from the Table, the corpus of NW is superior to the corpus of NNW in terms of both word token and word types. Because type/token differs in accordance with the length of the corpus/text, a calculation for type/token ratio (TTR) is used. TTR is informative for a corpus comprising of equal-sized texts. TTR is calculated by taking the percentage of type number in token number. The present study calculated TTR of the corpora that belongs to NWs and NNWs, and found 14.5% for NWs and 13.2% for NNWs. It demonstrated that NWs included more different words, or they had more lexical diversity when compared to the NNWs. The calculations were not made through per word ratio because the corpora were close to one another in terms of both tokens and types.

To assure the representativeness of the corpora (NW and NNWs), A probabilistic sample using simple random sampling technique was used in order to collect articles, and to construct the corpora. Probabilistic sample technique refers to a sampling procedure in which "all members of the population have the same probability of being selected" (Schreiber & Asner-Self, 2011, p. 87).

As stated in the Chapter 2, gender may have significant role in rhetorical stances and it may influence the rate and forms of rhetorical devices like hedging and boosting. Therefore, based on author names, the present study made an effort to supply the equality of authors by distributing equal number of male and female authors. In comparative and contrastive studies, as this one reported here, there are some steps to be taken before initiating the study. Regarding it, Connor and Moreno (2005) presented a new term called *tertia comparationis* (p. 154) which is defined as "common platforms for comparison". According to the first tertium comparationis, the data are to be collected from the similar number of journals published over the same publication period. Therefore, the publication period may be methodologically important in contrastive and comparative rhetoric studies. Accordingly, As shown in the tables 3.1. and 3.2., the present study built the entire corpus in a synchronic way rather than diachronic; and the corpus was constructed through the articles published between 2007-2015. The second *tertium comparationis* is that the texts that build the data have to be written by the native speakers of the respective languages. Regarding the second tertium comparationis, the present study carefully judged the author names not to lead any possible infelicities.

The present study employed *tertia comparationis*; though admittedly there are confounding variables, which are beyond the control, that could affect the research results. One of the troubling point is the educational degree of the authors from both groups. It is well-known that the higher degree of education an author has, the better quality texts are possible to be produced. The other confounding issue is the term of working experience that authors have had. It is rather possible that some authors are new in profession as academic authors while the others are in the profession over a very long period of time, which is a situation that may affect the writing quality. Therefore, the period that the author has passed in profession is of importance in contrastive and comparative studies. A third rough point is educational experience of authors. In other words, particularly non-native writers might have underwent different training programs at different rates. For instance, a non-native writer might have completed his/her BA, MA, or PhD degree in an English speaking country, which would enable a more native

fluency when compared to the author who had his/her education in a non-English speaking country. Therefore, non-native writers who had their education in English speaking countries with native speakers of English may behave more like a native writer than a non-native writer. The last puzzling point concerns name-based data collection method. While deciding the author nationality, Wood's (2001) criterion was used, in which it is stated that authors should have names native to the country; and secondly, names should be affiliated with the university or institution in countries in which English language is the primary or natively spoken as the first language. Accordingly, the present study determined author nationality relying on author name; however it is possible an author has an Anglo-Saxon name but still to be a non-native writer, or vice versa; a native writer with a non-Anglo-Saxon name. Despite all necessary precautions to eliminate these limitations, it seems almost impossible to overcome these methodological troubles that might slightly affect the results even if one of the infelicities stated on here is confronted.

3.3. Unit of Analysis

The identification of linguistic devices in a corpus is an arduous work, which is why it needs carefully planned formative preparations lest the researcher or analyser will not fail to notice the devices being investigated. As has been indicated in the previous titles, the present study investigated three linguistic devices from lexical aspect, which are namely *collocations, hedges,* and *boosters.* Regarding hedges and boosters, the propositions in the corpus were meticulously scanned. The term "proposition" needs further clarification because it was ascribed quite a different meaning than the traditional definition of it. The term "proposition" refers to the meaning of units that makes up the core meaning (Sanjaya, 2013). Further to say, each word cannot be considered as a device functioning hedges or boosters. For example the word "clear" can be an adjective acting as a booster in certain contexts while not in others.

As in all studies including analyses, the present study also determined taxonomies in order to categorize the investigated linguistic devices. In that sense, taxonomies for lexical collocations, lexical hedges, and lexical boosters were constructed. In the process of determining the taxonomies, a comprehensive literature review was made to be able to decide whether one taxonomy that belonged to one researcher should be used or an eclectic taxonomy constructed by merging varied taxonomies should be used, which would give more freedom. How the linguistic devices that the present study investigated were categorized, and detailed data were provided in the titles henceforth.

3.3.1. Identification of collocations

It may be useful to repeat that collocations were formerly regarded as a single unit by researchers; however later they were divided into two as lexical and grammatical collocations by Benson, Benson, and Ilson (1986). As has been understood from its name, grammatical collocations include linguistic devices, whether lexical or phrasal, like adjectives, verbs, or nouns, plus infinitives, prepositions or clauses. The patterns of a phrasal grammatical collocations are formed from a lexical unit and a pattern that specifies the sub-categorization property of the head (Bentivogli & Pianta, 2003). Similarly, some word combinations like verb+noun, preposition+noun, and infinitive verbs have dominant places in grammatical collocations, says Fontenelle (1998). On the other hand, lexical collocations, as stated by Bahns (1993), do not include infinitives, prepositions, or clauses; instead, various combinations of adjectives, adverbs, verbs, and nouns. It is easier to create or detect a lexical collocation than a grammatical collocation because lexical collocations are composed of two equal openclass lexical items and include no subordinate element (Fontenelle, 1998), if compared to closed class structure of grammatical collocations. One crucial notice is that this study neglected grammatical collocations, and focused on lexical collocations instead.

Benson, Benson, & Ilson (1986) more systematically divided lexical collocations into seven basic categories. Since two categories are very close to one another in meaning, the present study merged the two categories into one category. Also, an extra category was added to the taxonomy, which is *adverb+verb*. By by-passing one of the categories and adding another one, this study classified lexical collocations into seven categories. Shortly, the corpus were analyzed with the taxonomy borrowed from Benson, Benson, & Ilson with some minor changes, which are as follows:

- 1. *Verb* + *Noun* (to make a difference, to demonstrate the findings, make a mistake)
- 2. *Verb* + *Adverb*/*Adjective* (to analyse thoroughly, to stay close)
- 3. *Noun* + *Verb* (*study showed, results proved*)
- 4. Noun + Noun (an act of violence, gold rush, a ceasefire agreement)
- 5. Adjective + Noun (strong evidence, biased view, heavy traffic)
- 6. *Adverb* + *Adjective* (*strictly incorrect, hardly true, extremely generous*)
- 7. *Adverb* + *Verb* (*totally misunderstand, slightly prove, simply show*)

The categorization of lexical collocations is not limited to the taxonomy of Benson, Benson, and Ilson. There are other categorizations; for instance solid lexical collocations. When compared to lexical collocations, solid lexical collocations are much more rigid in constructing a lexical word combination. The term was first used in a dissertation titled "Personal Communication" in 2002 under the advising of Dr. Aghbar (cited from Sung, 2003) to refer to sequences of lexical items that occur so repeatedly; and hence, the lexical combination gets a strong bound to each other. There is such a strong interconnection between lexical item in solid lexical collocations. *High winds, acute pain, light drizzle* can be considered as examples of solid lexical collocations and solid lexical collocations, and looked upon both of them as lexical collocations. Another taxonomy for collocations was presented by Hill (1999). According to this taxonomy, collocations could be divided into four (the examples are borrowed from Hill):

- 1. Unique collocations: these collocations are thought that they do not have an equivalent, therefore should be used as they are without any adding or changing. For example, *leg room* to refer to the space between two seats.
- 2. Strong collocations: as can be understood from the term name, these collocations are so strong that it is hardly possible to find an equivalent. Although they are not unique, what is clear is that they collocate one another as if there were no alternative combinations. For example, *rancid butter* or *trenchant criticism*.
- 3. Medium-strength collocations: these type can be considered as collocations between strong and weak collocations. Many language user may find the

distinction hard. For example, *Sun reader* can be regarded as a strong collocation for a people living in the UK while it is weak for a non-native speaker living in a country in which the Sun Paper is not found. Therefore, these types of varying collocations are considered as medium-strength collocations.

4. Weak collocations: These kind of collocations have a co-occurrence chance with "a greater than random frequency". The word combinations that are constructed by using colours may be presented as examples: *red wine, black hair, a white shirt.*

Since the present study focussed on lexical collocations, it did not categorize the collocations according to their collocation strength. To state briefly, collocations in the corpus were categorized under seven types, which are Verb + Noun, Verb + Adverb/Adjective, Noun + Verb, Noun + Noun, Adjective + Noun, Adverb + Adjective, and Adverb + verb.

3.3.2. Identification of hedges

As Uysal (2014) indicated, hedges are divided into three major headings : (1) rhetorical devices; (2) lexical and referential markers; and (3) syntactic markers. To be more specific, rhetorical devices are structures in a sentence like denials, disclaimers, ambiguity markers, and vagueness. Lexical and referential markers are those that function as point of view distancing, downtoners, demonstratives, discourse particles, diminutives, and indefinite pronouns. Finally, syntactic markers are another common hedging devices like passive voices and if conditionals. As stated before, the present study analysed hedges from lexical aspect, which mostly kept up with the option two while not ignoring the option one. Similarly, in one of his well-known article, Hyland (1998c) categorized hedging devices. First he divided functions of hedges as "contentoriented" and "reader-oriented". He then further divided "content-oriented" into two as "accuracy-oriented" and "writer-oriented". And again, he divided "accuracy-oriented" into two as "attribute hedges" and "reliability hedges". As last but not least, he classified forms of hedging devices into two: "lexical hedges" and "strategic hedges" (p. 103). Lexical hedges include epistemic lexical verbs, nouns, adverbs, epistemic adjectives, and modal verbs while strategic (non-lexical) hedges contain "admission to a lack of knowledge, reference to a model, theory or methodology, and reference to limiting experimental conditions" (p. 141).

Although different taxonomies have been used for the categorization of indirectness and hedging (e.g. Skelton, 1988; Myers, 1989; Hinkel, 1997; Crompton, 1997; Koutsantoni, 2006) in the literature studies, hedging devices employed in the present study were determined mostly based on Hyland's suggestions (1998c) with some minor changes. The taxonomy of lexical hedges according to which the present study did the categorization is shown:

- 1. Modal auxiliaries and semi-modal verbs (may, might, can, could etc.)
- 2. Verbs (seem, believe, appear, estimate, argue etc.)
- 3. Epistemic adjectives (possible, approximate, uncertain)
- 4. Epistemic adverbs (slightly, presumably, merely, partly etc.)
- 5. Quantifiers/determiners (a few, some, many)
- 6. Nouns (assumption, estimate, suggestion, claim)

As stated, the present study divided lexical hedges into six categories, and accordingly analyzed. The corpus were examined according to the this taxonomy one by one, and general and specific findings were shown in tables not to give rise to a convoluted display.

3.3.3. Identification of boosters

Boosting is a crucial rhetorical device particularly for academic writing, though it has not caught attention as much as hedges have had. In a similar way, the literature regarding the taxonomies of boosters is not rich as much as it is with hedges. The owner of one of the most prominent studies about hedges and boosters Vassileva (2001) criticized Salager-Meyer's (1994) taxonomy of boosters for being not so clear-cut. However, Salager-Meyer had not proposed any taxonomy for boosters but hedges. Keeping that confusion aside, it had better to talk about Vassileva's taxonomy which is comprised of five categories as *modals, epistemic verbs, epistemic adjective and adverbs, grammatical/stylistic,* and *others.* Different from Vassileva, Pho (2008) constructed a taxonomy for boosters by passing the frontiers of traditional sentence components. His taxonomy included "Grammatical subjects; Modal auxiliaries and semi-modal verbs; Epistemic adjectives, adverbs and nouns; Attitudinal adjectives, adverbs and nouns; Verb tense and aspect; Voice; Self-reference words; Reporting verbs; and *That*-complement clauses".

On the other hand some scholars categorized boosters based on their relationship to discourse meaning, rather than lexical or phrasal categorizations. The very first of this type of classification belongs to Holmes (1984) who divided the functions of boosters into three categories as *speaker-oriented*, *content-oriented*, and *heareroriented*. A very similar function-based taxonomy was built by Urbanova (2003) with a slight change by replacing *content-oriented* with *discourse-organizing*.

The present study used an eclectic taxonomy of boosters which is similar to that of Bayyurt (2010) who sub-categorized boosters as *modals, adjectives, verbs,* and *nouns.* As in the taxonomy of hedges, boosters were divided into six in the present study.

- 1. Modal boosters (must, need to, will, have-has to, be to+infinitive)
- 2. Verbal boosters (ascertain, assure, convince, prove, substantiate etc.)
- 3. Adjectival boosters (absolute, adorable, alluring, assiduous, apparent etc.)
- 4. Adverbial boosters (accurately, admirably, assertively, blatantly, categorically, etc.)
- 5. Quantifiers/determiners (many, much, a great amount etc.)
- 6. Noun boosters (certitude, corroboration, eternity, plethora, proof etc.)

3.4. Research Design

As indicated earlier, the present dissertation primarily stays focussed on the contribution of studying lexical collocations, lexical hedges, and lexical boosters to nonnative writers' academic writing development by investigating differences and similarities between native and non-native writers. To achieve the aim, the corpus were manually scanned, there were PC-based word processing software programs, though. A PC based software program, namely a concordance program, was not employed for some grave reasons. First of all, it is absolutely apparent that to make a scanning of the corpora by the researcher manually is a must to be able to detect the semantic referring of the words, but for that a concordance program would only give the statistical information about the words but not semantic or pragmatic. In other words, an epistemic modal auxiliary, for example, 'will' would not have a function of boosting in every sentence it was used. For Instance, in a sentence 'Now, we will interpret the results', 'will' does not function as a certainty marker, but a 'tense case'. Furthermore, it is rather possible and common to see an epistemic lexical verb functioning not as a booster for conviction, strong commitment or high value, but a lexicographic meaning concentrated only on the action (Yağız & Demir, 2015b). For instance, the case of 'demonstrate' in Our results demonstrated the efficiency of can be considered as an intensity marker while in the sentence The results are demonstrated in the Table above cannot be because in the first example the verb demonstrate has a meaning of "to evidence or to prove" while in the latter example it functions as a bare stance "to show", which is thought as a hedging word rather than boosting. The situation is the same for hedging devices as well. A statistical research through a concordance program would provide a result regardless of the word illocutionary meaning. Particularly, many modal verbs have meanings that change depending on the context they are used in. As known, a modal may have epistemic (possibility), deontic (obligations), and dynamic (selfwillingness or ability) meanings based on the context. For example, the modal "can" is an absolute example: the modal verb "can" in the example the results can provide valuable information about... is a modal verb acting as hedge while in the example it can be seen the modal verb "can" does not function as a hedge but more generally a directing word. This distinction is mostly crucial for rhetorical devices like hedging and boosting. Therefore, in order to ensure whether a word functions as booster or hedge, a semantic and pragmatic scanning of the papers is of great importance, particularly to find out whether the words in the text have a role of boosters/hedges or not.

On the other hand, having completed the manual scanning of the corpora, the results were inserted into a PC-based concordance program named WordSmith to be able to calculate the most repeated pivot words in collocation categories.

In order to investigate whether there were statistically significant differences between NWs and NNWs in terms of using lexical collocations, lexical hedges, and lexical boosters, it was decided to employ Chi-squire test through PC-based SPSS software programme. Chi-squire was applied to each statistical data obtained from NW and NNW corpora.

3.4.1. Content analysis

As largely known, comparative or contrastive studies heavily depend on content analysis. It is a method of analysing visual, verbal, and written communication messages (Cole, 1988). Content analysis refers to systematic and replicable analysis of the data composed of all kinds of texts, speeches, articles, films subtitles or music lyrics. Hence, it enables the researcher to Figure out theoretical issues to expand understanding the data (Elo & Kyngas, 2008). Through classification and systematic coding of the content, both qualitative and quantitative methods can be carried out while using a content analysis. Content analysis is efficient in examining both the latent and the manifest content of an ordinary text (Rose, Spinks, & Canhoto, 2015). Manifest *content* is concrete in that it refers to the countable, visible component of the message. Therefore, manifest content can be replicated and tested by some other researchers who query the truth or validity of a study. On the other hand, latent content is less visible in a text with a message of disguising itself in relevant-irrelevant pictures or texts. That is why latent content is the meaning that lies behind the manifest content. Whether visible or disguised, undoubtedly both content and latent content require careful interpretations varying in depth (Graneheim & Lundman, 2004). Apart from latent and manifest division, content analysis can be divided into two as substantive and form (Schreier, 2012): substantive refers to what is being said in the message while form features how the message is being given in a text. It is understood that substantive and form features of content analysis of a text make a distinction between the style of discourse and the message given.

Applications of content analysis included two aims, one of which is description and the latter is prediction. In descriptive content analysis, the focus is on describing the message content so that more descriptive data for further understanding of the investigated issue could be acquired, which is of great importance for further studies. In predictive content analysis, the researcher seeks to foresee the receiver or audience reaction on an issue (Neuendorf, 2002). Generally the outcome of predictive content analysis is useful to avoid any possible criticism or unpredictable outcomes regarding a critical issue. On the top of all, content analysis can be carried out in inductive and deductive ways. According to Elo and Kyngas (Elo & Kyngas, 2008), inductive content analysis differs from deductive content analysis in that it is used in cases in which no previous studies have existed on the phenomenon that is being dealt with. In other words, when the structure of the analysis is done on the basis of previous knowledge, deductive content analysis has overachievement chance to obtain more reliable results.

CHAPTER IV

RESULTS

This chapter was designed under five titles together with some further subtitles. The first title Overall Statistic Results provided information on total use of lexical collocations, hedges, and boosters on figures so that the differences and similarities can be seen easily. All the figures in the chapter purveyed three type of results: "native authors, non-native authors, and in total". In the second title, Descriptive Statistic *Results* a general distribution of the results obtained after a series of descriptive analyses was given in order to present the minimum, the maximum, and the mean of each category of collocations, hedges, and boosters belonging to both writer groups. In this title, tables instead of figures were employed because it was considered more apropos to the presentation of data composed of specific numbers belonging to each writer type and each sub-category. The third title Quantitative Analysis Results included four additional subtitles so that each lexical component that the present dissertation studied could be unfolded in a non-complex way that would not perplex the audience. The fourth title Qualitative Analysis results underscored the authentic use of collocations, hedges, and boosters, and it included sample sentences derived from the corpus. In addition, the fourth title led us to get deeper insight about the authentic usage of the lexical components that the present study investigated. Real example sentences were manually picked up in the sample so that the use of collocations, hedges, and boosters by NWs and NNWs regarding each subcategory could be interpreted by the way of comparisons, which allowed to see the similarities and differences in terms of lexical preferences. The last title summarized all the titles so that quicker information could be picked up.

4.1. Overall Statistic Results

Having analyzed the statistical calculations, the results were displayed in the figures. The figures included both overall and categorical results. Furthermore, each group was given a different colour so that the tracking would be easier.

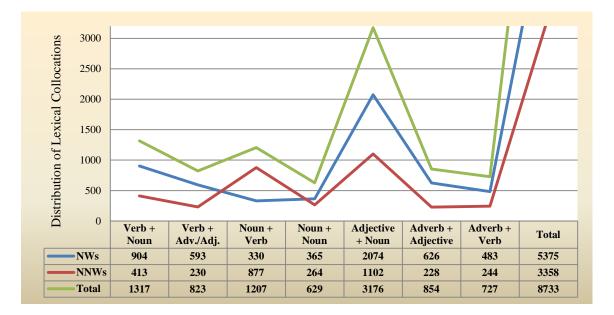


Figure 4.1. Overall and Categorical Number of Collocations in Sample Data.

The Figure 4.1. shows the categorical and overall use of collocations by NWs and NNWs. The Figure displays stark frequency fluctuations between NWs and NNWs. To provide information with respect to overall results, *adjective* + *verb* is the subcategory of lexical collocation that was used the most frequently in total. As seen, NWs and NNWs used the category of *adjective* + *noun* 3176 times, which is a Figure that doubled the nearest Figure. The second in the rank is the category of *verb* + *noun* with a total number of 1317. On the other hand, the least used subcategories are *adverb* + *verb* and *noun* + *noun*, 727, 629, respectively. When the Figure is looked at in general, it is apparent that there is a symmetrical up and down in the lines, which may be interpreted that NWs and NNWs increased or lowered their use of collocations on similar rates. Therefore, it is highly possible to mention about a positive correlation between NWs and NNWs in total. While NWs used 5375 collocations in their sample data, the Figure stayed much lower for NNWs; 3358.

Both NWs and NNWs preferred to use the category of *adjective* + *noun* while making word combinations. The Figure apparently unravels that NWs nearly doubled NNWs in number with 2074 to 1102. To say briefly, NWs and NNWs have a high tendency of using *adjective* + *noun* when compared to other lexical collocations. The Figure signals a change in the second rank regarding the use of collocations from NWs'

and NNWs' perspectives. While NWs preferred to use verb + noun, NNWs preferred to use noun + verb; 904, 877, respectively. Furthermore, there does not seem a parallelism with other categories either. For example, the third most frequently used collocation category is adverb + adjective for NWs whilst it is verb + noun for NNWs. The least used collocation category also changes in a significant way: NWs used 330 noun + verbcollocations while NNWs used 228 adjective + adverb collocations, which ranked both subcategories onto the lattermost. To summarize, while adjective + noun is the category that both NWs and NNWs used at first ranking, the least used subcategory is noun + verb for NWs, and adjective + adverb for NNWs.

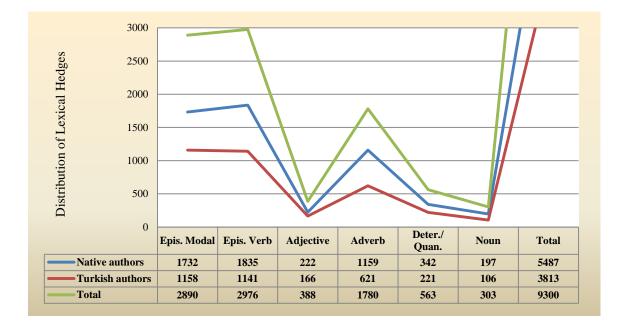


Figure 4.2. Overall and Categorical Number of Hedges in Sample Data.

The second Figure provides information about overall and categorical use of hedges in the sample data. When the Figure was examined, it appears that there is a parallelism between NWs and NNWs as it was in collocations. The positive correlation regarding ups and downs may be considered as a symmetrical use of hedges. In total, *epistemic verbs* is the category that was used more than any other lexical hedge type with a number of 2976. However, there is a slight difference between the category of epistemic verbs and the category of epistemic verbs. The Figure indicates that *epistemic modals* were used 2890 times, which is a neck and neck Figure with epistemic verbs. When we look at the least used hedging type, it is assuredly *nouns*, 303. What is a

similar result regarding total use of hedges is that, as it was in collocations, NWs were at the front lines with a number of 5487 while the Figure was only 3813 for NNWs.

On contrary to collocations, there is a parallelism between NWs and NNWs in terms of hedge frequency. In another saying, there is a positive categorical correlation. For instance, it is stark obvious that *epistemic verbs* is the category both NWs and NNWs included the most; 1835 and 1141, respectively while the second and the third most frequently used hedge types are the same for both groups: *epistemic modal* and *adverbial hedges*, respectively. The same parallelism exists for the least used hedge type: *Nouns* is the category that is the least used hedge category both for NWs and NNWs; 197, 106, respectively.

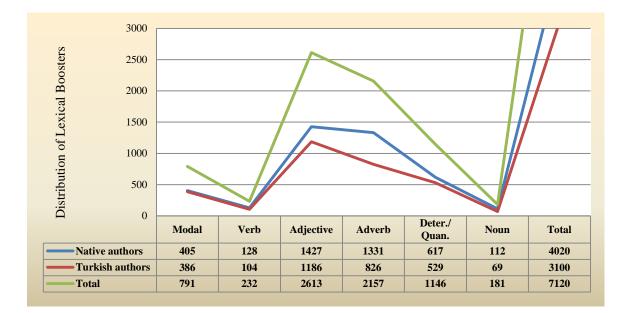


Figure 4.3. Overall and Categorical Number of Boosters in Sample Data.

The Figure 4.3. displays overall and categorical numbers of boosters. According to the Figure, adjectival boosters are the most preferred boosting category with a total number of 2613. Adjectival boosters are followed by adverbial boosters and determiners / Quantifiers; 2157 and 1146, respectively. It appears that adjectival and adverbial boosters doubled the nearest boosting type, which may be regarded as a axiomatic sign regarding NWs' and NNWs' common inclinations on these boosters. To talk about the least used boosting category, *nouns* appear with a total number of 181, which is followed by verb acting as boosters; 232. Regarding the total boosting devices, NWs is far ahead of NNWs; 4020 to 3100.

As it is in collocations and hedging, there seems a symmetrical use of boosters. For example, the lines starts with the category of *modals*, and decrease toward *verbs*, and then reach to the zenith in the category of *adjectives*. Having reached to the peak, a decrease occurs again until noun boosters for both NWs and NNWs. Also, NWs placed adjectival boosters onto the first rank with a Figure of 1427, which is followed by adverbial boosters; 1331. The situation is exactly same with NNWs. First rank in boosting category is composed of adjectival boosters while the second is adverbial boosters; 1186 and 826, respectively. *Nouns* is in the last rank for both NWs and NNWs; 112 and 69, respectively.

Up to this point, the number of lexical collocations, hedges, and boosters were figured. Henceforth, the results provide information on the lexical diversities in total and on categorical bases. The Figure 4.4. displays NWs' and NNWs' collocation diversity distributions.

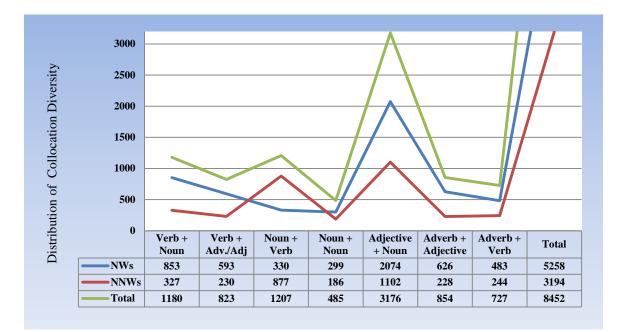


Figure 4.4. Overall and Categorical Number of Collocation Diversity in Sample Data.

As readily seen from the Figure 4.4., in total, NWs were far ahead of NNWs. Further to say, NWs' lexical diversity reached to 5258 while NNWs' stayed at 3194. Meanwhile, *adjective* + *noun* was the collocation category that evidenced its numerical superiority among all others. Following it, *noun* + *verb* tags behind with 1027, and then verb + noun; 1180. With respect to the least used collocation category in total, noun + noun comes forward with 485. Similar to other figures, the distribution is partly symmetrical except for the category of noun + verb, in which a surprisingly marked increase meets us.

On the other hand, NWs included the highest number of collocations in the category of *adjective* + *noun*, as did NNWs, 2074 and 1102, respectively. While *verb* + *noun* followed *adjective* + *noun*; 853, it was *noun* + *verb* that succeeded *adjective* + *noun* in NNW sample data; 877. When parallelism between NWs and NNWs was taken into account, unsurprisingly both writer groups placed the category of *noun* + *noun* onto the lowest bottom in the ranking; 299 in NW corpus and 186 in NNW corpus.

Having quantitatively analyzed NWs and NNWs' collocation diversity frequencies, hedge diversity was examined through the statistical program. The results were shown in the Figure 4.5. Thanks to the Figure, a clear understanding regarding the striking differences between NWs and NNWs is gained.

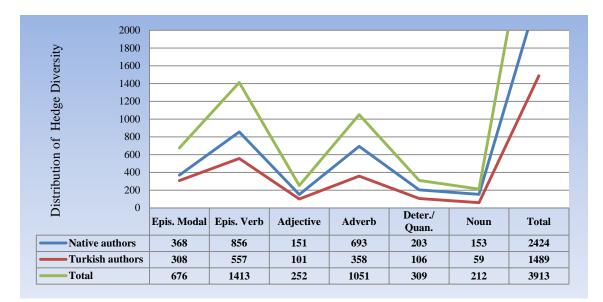


Figure 4.5. Overall and Categorical Number of Hedge Diversity in Sample Data.

According to the results shown in the Figure 4.5., NWs used 2424 lexical hedges while NNWs used 1489. The Figure provided that NNWs tagged far behind. Verbs acting as hedges made up the biggest rate in total with a Figure of 1413, which was succeeded by adverbial hedges. On the other hand, *nouns* got the smallest rate in total with a number of 212. Shortly to indicate, while *verbs* have the highest diversity rate,

nouns have the lowest rate. In other words, writers used many different kinds of verbs in order to hedge their statements while *nouns* were not such an attractive option.

Verbal hedges were the most preferred hedging type in NWs and NNWs' academic writings; 856 and 557, respectively. Subsequently adverbial hedges and epistemic modal followed behind for both writer groups. But, the finding did not give a similar outcome regarding the least lexical diversity. Nouns acting as hedges had the lowest lexical diversity rate for NNWs while it was adjective for NWs; 59 to 151, respectively. Briefly, the amount of hedging lexical diversity was the highest in epistemic verbs for both NWs and NNWs while the amount was the lowest in nouns for NNWs and in adjectives for NWs.

Boosters were analyzed and the results regarding lexical variety were stated in the Figure 4.6. As it was in the distributions of collocations and hedges, a symmetrical distribution is apparently obvious in the Figure.

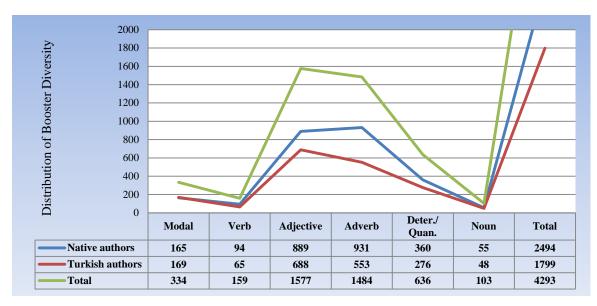


Figure 4.6. Overall and Categorical Number of Booster Diversity in Sample Data.

By examining the Figure 4.6., it can be stated that NWs were again superior in boosting lexical variety in total with a Figure of 2494. The total Figure for NNWs was 1799. Germane to total categorical lexical variety, it is easily seen that adjectives had the highest lexical variety with a number of 1577, which is slightly over than adverbs; 1484. As earlier, nouns take the lowest rank with 103 lexical variety in total.

When the results were closely examined from Anglophonic writers' perspectives, adverbs lexically had a high variety when compared to all other categories of boosters. It was succeeded by respectively adjectives, determiners/quantifiers, modals, verbs, and nouns. it is clear from the Figure that results are not much different for Turkish writers. Adjective got the leadership in lexical diversity, which was followed by respectively adverbs, determiners/ quantifiers, modals, verbs, and again as last nouns. Nouns had the least lexical variety in both NW and NNW corpora.

4.2. Descriptive Statistic Results

In the title 4.1., the overall distributions of collocations, hedges, and boosters were yielded in the figures. Different from the overall distributions, the present title gave the quantitative findings in a specific was through tables. The tables were furnished with the columns providing information of each subcategories. The columns are composed of the minimum and the maximum numbers that both NWs and NNWs included in their scientific writing. The column of minimum represents for the number that the category was used at its lowest amount by one or more than one writers. Accordingly, the column of maximum represents for the number that the category was used at its highest amount by one or more than one writers. Furthermore, the tables included the means in order to see the average of total distributions, and included the range in order to see the difference between the minimum and the maximum numbers. One note regarding the means is that they represent for per writer/per article.

The Table 4.1. displays categorical distributions of collocations across corpus.

Table 4.1.

		Native Writers			Writers Turkish Writers			
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range
Verb + Noun	1	18	9.04	17	0	11	4.13	11
Verb + Adj./Adv.	0	13	5.93	13	0	7	2.30	7
Noun + Verb	0	11	3.30	11	0	17	8.77	17
Noun + Noun	0	16	3.65	16	0	9	2.64	9
Adj. + Noun	3	76	20.74	73	0	35	11.02	35
Adverb + Adj.	1	17	6.26	16	0	6	2.28	6
Adverb + Verb	1	12	4.83	11	0	9	2.44	9
Total			53.75				33.58	

Collocation Number of Instances in Sample Data

According to the Table, there is/are native writer(s) who had a zero use in the categories of verb + adj./adv., noun + verb, and noun + noun. The other collocation types like verb + noun, adverb + adjective, and adverb + verb were used only one time by some native writers. On the other hand, all collocation categories have a decimal numeric character at their maximum levels, except for adjective + noun which had a maximum level of 76. Similarly, the highest range again belongs to adjective + noun; 73 while all others are at their decimal amounts. Regarding the means, it can be said that the highest mean is of adjective + noun while the lowest is of noun + verb. In other words, if the total use was equalized, every native writer had used 20.74 adjective + noun word combinations whilst only 3.30 noun + verb collocations.

To talk about NNWs' collocation distributions, it is obvious that NNWs had a minimum level of zero in all subcategories of collocation, which means that in all subcategories there is/are writer(s) who did not use of the collocation type. Regarding the maximum used, *adjective* + *noun* is the category with a number of 35, which is a Figure half than the use of NWs'. The second maximum amount is of *noun* + *verb*; 17. Again, *adjective* + *noun* is the category with the highest range level; 35. With a mean of 11.02, *adjective* + *noun* has the highest average level while *adverb* + *adjective* has the lowest mean level; 2.28.

When the total mean was considered, it is blatantly obvious that NWs have a higher mean than NNWs; 53.75 and 33.58, respectively.

The Table 4.2. provided categorical distributions of hedges across NW and NNW corpora.

Table 4.2.

Hedge Number of Instances in Sample Data

Native Writers				Turkish Writers					
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range	
Modal	3	48	17.32	45	0	43	15.58	43	
Verb	3	43	18.35	40	0	37	11.41	37	
Adjective	0	10	2.22	10	0	7	1.66	7	
Adverb	3	22	11.59	19	0	21	6.21	21	
Quan./Deter	0	13	3.42	13	0	12	2.21	12	
Noun	0	6	1.97	6	0	10	1.06	10	
Total			54.87				38.13		

The Table shows hedges adjectives, that in the category of quantifiers/determiners, and nouns had a minimum level of zero, which indicates that there is at least one writer who did not use these hedge categories. Meanwhile, modals and verbs acting as hedges had the maximum number; 48 and 43, respectively. With respect to the category with the lowest maximum level, nouns welcome us; 6. In other words, the maximum level which a NW used nouns acting as hedges is six. Again modals and verbs have high means but this time verbs overcome modals with a mean of 18.35. The lowest mean belongs to nouns; 1.97. 45 for modals and 40 for verbs emerge as the highest ranges.

NNWs, as it was in the distribution of collocations, had a minimum level of zero at all subcategories of hedging. Regarding the maximum, the category of modals and then the category of verbs are demonstrated in the Table. The lowest maximum level belonged to adjective category with a Figure of 7. As obviously seen from the Table, the highest mean is of modals while the lowest is of nouns with 1.06. On the other hand, the category of modals has the highest range with 43 while the lowest range is with the category of adjectives; 7. Two highest amount of mean belong to modals and verbs; 15.58 and 11.41, respectively.

With respect to total mean, it is seen that NWs have a significantly higher mean than NNWs, as it was with total collocation mean. NWs have a total mean of 54.87 while NNWs have 38.13.

Table 4.3.

Booster Number of Instances in Sample Data

		Nativ	e Writers			Turkish	Writers	
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range
Modal	0	20	4.05	20	0	23	3.86	23
Verb	0	7	1.28	7	0	5	1.04	5
Adjective	1	34	14.27	33	1	37	11.86	36
Adverb	4	39	13.31	35	0	21	8.26	21
Quan./Deter	0	31	6.17	31	0	19	5.29	19
Noun	0	7	1.12	7	0	5	0.69	5
Total			40.20				31	

The Table 4.3. presents booster numbers in each category. As easily seen from the Table, in NW corpus, four categories had a minimum level of zero, which are modals, verbs, quantifiers/determiners, and nouns. Meanwhile the category of adverbs had the maximum amount of use with 39, which means that one or more than one writer used 39 adverbial boosters while composing their writing. Adverbs are succeeded by the category of adjectives and then quantifiers/determiners; 39 and 31, respectively. The lowest maximum use was shared by two categories; verbs and nouns. The Table also provides the ranges. While the category of adverbs has a range of 35, verbs and nouns have a range of seven. The highest mean belonged to adjectives with 14.27, which can be interpreted that each writer used 14.27 adjectival boosters when the total amount of adjectival boosters were averaged. Meanwhile, the lowest mean belonged to nouns with an average of 1.12.

On the other hand, the findings regarding NNW quantitative analyses inform us that NNWs had a level of zero at almost all categories except for adjectives. Similar to NWs', adjectives was the category with maximum hedges. In other words, one or more than one writer used as many as 37 adjectival hedges, which was followed by modals and adverbs. As it was in NW sample, nouns and verbs became the categories with the lowest maximum level; 5. Again similar to NWs', with 11.86 mean adjectives became

the category with highest mean while nouns had the lowest mean with 0.69. Furthermore, the category of adjectives had a range of 36, which is the supreme numerical gap between the minimum and the maximum amounts.

When the Table is examined in order to investigate the total means, a superiority by NWs may be seen easily. NWs have a mean of 40.20 while NNWs have 31. What is noteworthy is that the total mean difference between NWs and NNWs is not as significantly high as it was in collocations and hedges.

In the tables henceforth, the findings provide information about minimum, maximum, mean, and range of categories that were investigated in the present study. But, different from the tables which provided total number of use in each category, the tables henceforth inform us about NWs' and NNWs' lexical diversity variations. The first Table that aimed to display categorical lexical diversities was noted in the Table 4.4.

Table 4.4.

		Native Writers			Turkish Writers			
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range
Verb + Noun	1	18	8.53	17	0	10	3.27	10
Verb + Adj./Adv.	0	13	5.93	13	0	7	2.30	7
Noun + Verb	0	11	3.30	11	0	17	8.77	17
Noun + Noun	0	15	2.99	15	0	8	1.86	8
Adj. + Noun	3	76	20.74	73	0	35	11.02	35
Adverb + Adj.	1	17	6.26	16	0	6	2.28	6
Adverb + Verb	1	12	4.83	11	0	9	2.44	9
Total			52.58				31.94	

Breakdown of Collocation Diversity Number in Sample Data

As seen from the Table, the maximum collocation lexical diversity by NWs is with *adjective* + *noun*, which is followed by *verb* + *noun* and then *adverb* + *adjective*. The categories *verb* + *adjective/adverb*, *noun* + *verb*, and *noun* + *noun* were used none by one or more than one writers. As can be guessed, the ultimate mean is of *adjective* + *noun* with 20.74 while the lowest belongs to *noun* + *noun*, which means that NWs are more prone to using *adjective* + *noun* collocation combination than *noun* + *noun*. To talk about the ranges, the biggest difference between minimum and maximum is of *adjective* + *noun* while the lowest is of *noun* + *verb* and *adverb* + *verb*. It is stark clear in from the Table that NNWs have much less collocation diversity than NWs. When the total mean is examined, it becomes apparent that NWs have a lexicon superiority in using lexical collocations much more than NNWs; 52.58 and 31.94, respectively. On the other hand, it considerably apparent from the Table that, as it was in NWs' results, NNWs have a lexical variety mostly in the category of *adjective* + *noun*, then follows *noun* + *verb* and *verb* + *noun*. What is interesting is that NNWs had a zero level in all lexical collocation diversity categories, which means that in each lexical collocation category there is one or more than one writer who employed no collocations in these categories. Regarding the highest and lowest mean of lexical diversity collocations, *adjective* + *noun* and *verb* + *adjective/adverb* come forward respectively 11.02 and 2.28.

The following Table allows us to gain insight of hedge diversity number that was obtained after a descriptive quantitative analyses.

Table 4.5.

	Native Writers				Turkish `	Writers		
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range
Modal	1	5	3.68	4	0	5	3.08	5
Verb	3	15	8.56	12	0	12	5.57	12
Adjective	0	5	1.51	5	0	6	1.01	6
Adverb	2	13	6.93	11	0	9	3.58	9
Quan./Deter	0	6	2.03	6	0	4	1.06	4
Noun	0	6	1.53	6	0	3	0.59	3
Total			24.24				14.89	

Breakdown of Hedge Diversity Number in Sample Data

According to the results presented in the Table, a minimum level of zero was detected in the categories of adjective, quantifier /determiner, and noun in NW sample corpus. Meanwhile, the maximum level of diversity was found to be in the category of verb, which tagged behind adverb; 15 and 13, respectively. When compared to collocation diversity means, hedge diversity means appear to be lower. The highest mean belongs to the category of verb with an average of 8.56 while the lowest is of adjectives with 1.51 average. Further to say about lexical hedge diversity, the biggest numerical difference is of verbs while the smallest is of modals.

As it was with collocation diversity, one or more than one writer emerged with zero use of all hedge categories in NNW corpus. Similar to NWs' results, the findings in the Table evidence that the maximum hedge diversity is in the category of verb, then follows adverbs;12 and 6, respectively. In NNW findings, low means exist in almost all categories. Yet, the category of verb has a moderate mean with 5.57. Though, the lowest mean of hedge diversity appears to be rather low when compared to NWs' lowest mean; 0.59 in the category of noun.

If to provide information about the total mean of all categories by NWs and NNWs, the results reveal that both NWs and NNWs have a relatively lower mean scores when compared to the scores of collocation diversity. Unsurprisingly, NWs have a high level of mean while NNWs have much more lower; 24.24, 14.89, respectively.

Table 4.6.

		Nativ	e Writers			Turkish `	Writers	
Variables	Min.	Max.	Mean	Range	Min.	Max.	Mean	Range
Modal	0	4	1.65	4	0	5	1.69	5
Verb	0	4	0.94	4	0	3	0.65	3
Adjective	2	21	8.89	19	1	13	6.88	12
Adverb	4	21	9.31	17	0	12	5.53	12
Quan./Deter	0	9	3.60	9	0	8	2.76	8
Noun	0	2	0.55	2	0	3	0.48	3
Total			24.94				17.99	

Findings germane to boosters diversity were given in the Table 4.6. The Table displays that there are a few significant similarities between hedges and boosters diversities. NWs' total diversity average did not show a significant change while NNWs' boosters diversities partially increased. In spite of that, NWs are still superior than NNWs in total booster diversity with an average of 24.94 to 17.99. The worthy thing is that it is the first time NNWs neared to NWs at a such close level.

The results reveal that the categories of adjective and adverbs have the maximum number of booster diversity while the categories of modals, verbs, quantifiers/determiners, and nouns have a minimum number of booster diversity at the amount of zero. As well as having the maximum booster diversity, adjectives and adverbs both have the highest ranges; 19 and 17, respectively, and have the highest mean; 9.31 and 8.89, respectively. On the other hand, nouns emerge as the category with the smallest mean of diversity with an average of 0.55.

When the Table is looked at closely, it is seen that one or more than one writers did use none of each category except for adjectives. Meanwhile, the highest booster diversity belongs to adjectives and then adverbs as they were in NW corpus. Again, similar to NWs results, the findings in the Table show a parallelism between NW and NNW result in terms of mean scores. Adjective and adverbs have the highest mean scores; 6.88 and 5.53, respectively. Nouns, as it was in NW corpus, constructed the category with the lowest mean score with an average of 0.48, which is a similar score to NWs' (0.55).

To summarize, the present title provided us information in order to have better insight on NWs' and NNWs' overall and categorical scores.

4.3. Quantitative Analysis Results

The present title was further divided into four so that the results be better presented. The first subtitle *Results of lexical diversity* gives us insights about whether NWs and NNWs have differed in terms of their lexical diversity, i.e. productivity. The other subtitles respectively *Results of collocations, Results of hedges,* and *Results of boosters* provide information of whether test analysis outcomes mentioned about a statistically significant difference between NWs and NNWs in terms of total and categorical frequencies.

4.3.1. Results of lexical diversity

In order to investigate the effect of nativeness on collocation diversity, a Chisquire statistical test was employed. The findings were reported in the Table 4.7.

Table 4.7.

Statistical Findings of Collocation Diversity

Variables	Value	df	Sig. Value
Verb+Noun	85.147	18	.001**
Verb+Adj./Adv.	67.657	13	.001**
Noun+Verb	133.600	16	.001**
Noun+Noun	17.086	11	.105
Adjective+Noun	71.749	40	.002**
Adverb+Adjective	79.626	16	.001**
Adverb+Verb	51.562	11	.001**
Total	104.544	71	.006**

** represents for a p value at .01

The Table can be summarized as follows:

- A statistically significant difference was found between Native and Non-native writers in terms of *verb* + *noun* collocation diversity ($X^2(18)=85.147, p<.001$).
- A statistically significant difference was found between Native and Non-native writers in terms of *verb* + *adj./adv*. collocation diversity $(X^2(13)=67.657, p<.001)$.
- A statistically significant difference was found between Native and Non-native writers in terms of *noun* + *verb* collocation diversity ($X^2(16)=133.600, p<.001$).
- A statistically significant difference was not found between Native and Nonnative writers in terms of *noun* + *noun* collocation diversity $(X^2(11)=17.086, p=.105)$.
- A statistically significant difference was found between Native and Non-native writers in terms of *adjective* + *noun* collocation diversity $(X^2(40)=71.749, p=.002)$.
- A statistically significant difference was found between Native and Non-native writers in terms of *adverb* + *adjective* collocation diversity ($X^2(16)=79.626$, p<.001).
- A statistically significant difference was found between Native and Non-native writers in terms of *adverb* + *verb* collocation diversity $(X^2(11)=51.562, p<.001)$
- A statistically significant difference was found between Native and Non-native writers in terms of total collocation diversity ($X^2(71)=104.544, p=.006$)

To boil down the statistical findings regarding collocations diversity, it is apparent that a marked difference found between NWs and NNWs in all collocation categories but for noun + noun.

The Table 4.8. provides detailed information on statistical findings with regard to hedge diversity between NWs and NNWs.

Table 4.8.

Variables	Value	df	Sig. Value
Modal	17.910	5	.003**
Verb	52.749	15	.001**
Adjective	17.559	6	$.007^{**}$
Adverb	73.539	12	.001**
Deter/Quan	37.035	6	.001**
Noun	47.709	6	.001**
Total	93.518	33	.001**

Statistical Findings of Hedge Diversity

** represents for a *p* value at .01

According to the Table:

- A statistically significant difference was found between Native and Non-native writers in terms of modal hedges diversity ($X^2(5)=17.910, p=.003$).
- A statistically significant difference was found between Native and Non-native writers in terms of verbal hedges diversity ($X^2(15)=52.749, p<.001$).
- A statistically significant difference was found between Native and Non-native writers in terms of adjectival hedges diversity ($X^2(6)=17.559$, p=.007).
- A statistically significant difference was found between Native and Non-native writers in terms of adverbial hedges diversity ($X^2(12)=73.539, p<.001$).
- A statistically significant difference was found between Native and Non-native writers in terms of determiner/quantifier hedges diversity $(X^2(6)=37.035, p<.001)$.
- A statistically significant difference was found between Native and Non-native writers in terms of noun hedges diversity ($X^2(6)=47.709, p<.001$).
- A statistically significant difference was found between Native and Non-native writers in terms of total hedges diversity ($X^2(33)=93.518$, p<.001)

Briefly, it is clearly obvious that there are statistically meaningful differences between NWs and NNWs in terms of lexical hedges diversity in all categories without exception.

The following Table gives statistical findings in order to better understand the categorical booster diversities between NWs and NNWs.

Table 4.9.

Variables	Value	df	Sig. Value
Modal	9.643	5	.086
Verb	11.242	4	.024*
Adjective	29.479	18	.043*
Adverb	66.011	19	.001**
Deter/Quan	23.299	9	.006**
Noun	8.141	3	.043*
Total	61.881	35	.003**

* represents for a *p* value at .05

** represents for a *p* value at .01

The Table can be noted down as follows:

- A statistically significant difference was not found between Native and Nonnative writers in terms of modal boosters diversity $(X^2(5)=9.643, p=.086)$.
- A statistically significant difference was found between Native and Non-native • writers in terms of verbal boosters diversity ($X^2(4)=11.242$, p=.024).
- A statistically significant difference was found between Native and Non-native • writers in terms of adjectival boosters diversity $(X^2(18)=29.479, p=.043)$.
- A statistically significant difference was found between Native and Non-native • writers in terms of adverbial boosters diversity $(X^2(19)=66.011, p<.001)$.
- A statistically significant difference was found between Native and Non-native writers in terms of determiner/quantifier boosters diversity $(X^2(9)=23.299)$, *p*=.006).
- A statistically significant difference was found between Native and Non-native writers in terms of noun boosters diversity $(X^2(3)=8.141, p=.043)$.

• A statistically significant difference was found between Native and Non-native writers in terms of total boosters diversity ($X^2(35)=61.881$, p=.003).

As understood from the interpretations, a non-significance was only observed in the category of modal booster diversity. In all other categories a marked difference was found.

4.3.2. Results of collocations

A Chi-squire test was applied to the NW and NNW corpora in order to detect whether there were statistically significant differences between Anglophonic and Turkish writers in terms of lexical collocation frequency. The following Table provides in-depth outcomes of the test.

Table 4.10.

Statistical Findings of lexical collocations

Variables	Value	df	Sig. Value
Verb+Noun	79.324	18	.001**
Verb+Adj./Adv.	67.657	13	.001**
Noun+Verb	133.600	16	.001**
Noun+Noun	22.798	12	.029*
Adjective+Noun	71.749	40	.002**
Adverb+Adjective	79.626	16	.001**
Adverb+Verb	51.562	11	.001**
Total	97.690	69	.013*

* represents for a *p* value at .05

** represents for a *p* value at .01

The Table reveals that:

- A statistically significant difference was found between Native and Non-native writers in terms of *verb* + *noun* collocation frequency ($X^2(18)=79.324$, *p*<.001).
- A statistically significant difference was found between Native and Non-native writers in terms of *verb* + *adj./adv*. collocation frequency ($X^2(13)=67.657$, p<.001).
- A statistically significant difference was found between Native and Non-native writers in terms of *noun* + *verb* collocation frequency ($X^2(16)=133.600, p<.001$).

- A statistically significant difference was found between Native and Non-native writers in terms of *noun* + *noun* collocation frequency ($X^2(12)=22.798, p=.029$).
- A statistically significant difference was found between Native and Non-native writers in terms of *adjective* + *noun* collocation frequency ($X^2(40)=71.749$, p=.002).
- A statistically significant difference was found between Native and Non-native writers in terms of *adverb* + *adjective* collocation frequency ($X^2(16)=79.626$, p<.001).
- A statistically significant difference was found between Native and Non-native writers in terms of *adverb* + *verb* collocation frequency $(X^2(11)=51.562, p<.001)$.
- A statistically significant difference was found between Native and Non-native writers in terms of total collocation frequency ($X^2(69)=97.690, p=.013$).

It is relatively clear that a statistically meaningful differentiation between NWs and NNWs in terms of collocation frequency existed in all categories of collocations that the present study investigated.

4.3.3. Results of hedges

In a similar vein, the results were tested by Chi-squire so that statistical difference were yielded in terms of using lexical hedges by NWs and NNWs. The chi-squire test results were provided in the following Table.

Table 4.11.

Statistical Findings of lexical hedges

Variables	Value	df	Sig. Value
Modal	55.033	38	.036*
Verb	72.479	39	.001**
Adjective	13.695	9	.134
Adverb	73.506	21	.001**
Deter/Quan	36.359	13	.001**
Noun	42.444	8	.001**
Total	85.343	73	.153

* represents for a p value at .05

** represents for a *p* value at .01

It is easily understood from the Table that

- A statistically significant difference was found between Native and Non-native writers in terms of modal hedges frequency ($X^2(38)=55.033$, p=.036).
- A statistically significant difference was found between Native and Non-native writers in terms of verbal hedges frequency ($X^2(39)=72.479, p=.001$).
- A statistically significant difference was not found between Native and Nonnative writers in terms of adjectival hedges frequency ($X^2(9)=13.695$, p=.134).
- A statistically significant difference was found between Native and Non-native writers in terms of adverbial hedges frequency ($X^2(21)=73.506$, p<.001).
- A statistically significant difference was found between Native and Non-native writers in terms of determiner/quantifier hedges frequency $(X^2(13)=36.359, p=.001)$.
- A statistically significant difference was found between Native and Non-native writers in terms of noun hedges frequency ($X^2(8)=42.444$, p<.001).
- A statistically significant difference was not found between Native and Nonnative writers in terms of total hedges frequency ($X^2(73)=85.343, p=.153$).

Different from other results, we see that there is not a statistically significant difference between NWs and NNWs in terms of total lexical hedges boosters. Besides, the findings regarding adjectival lexical hedges did not provide a meaningful difference. However, in all other categories, statistically significant differences were yielded.

4.3.4. Results of boosters

One of the aims in the present study was to detect whether there were statistically significant differences between NWs and NNWs in terms of the amount of boosters that both writer types included in their scientific texts. To be able to achieve the purpose, as it was with every other categories, Chi-squire test was employed. The results were furnished into the Table 4.12.

Table 4.12.

Statistical Findings of Lexical Boosters

Variables	Value	df	Sig. Value
Modal	19.304	16	.253
Verb	11.782	7	.108
Adjective	32.902	30	.327
Adverb	49.076	30	$.015^{*}$
Deter/Quan	27.901	21	.143
Noun	6.329	7	.502
Total	78.430	60	.055

* represents for a *p* value at .05

As seen from the Table 4.12.:

- A statistically significant difference was not found between Native and Nonnative writers in terms of modal boosters frequency ($X^2(16)=19.304, p=.253$).
- A statistically significant difference was not found between Native and Nonnative writers in terms of verbal boosters frequency ($X^2(7)=11.782, p=.108$).
- A statistically significant difference was not found between Native and Nonnative writers in terms of adjectival boosters frequency ($X^2(30)=32.902$, p=.327).
- A statistically significant difference was found between Native and Non-native writers in terms of adverbial boosters frequency ($X^2(30)=49.076$, p=.015).
- A statistically significant difference was not found between Native and Nonnative writers in terms of determiner/quantifier boosters frequency (X²(21)=27.901, p=.143).
- A statistically significant difference was not found between Native and Nonnative writers in terms of noun boosters frequency ($X^2(7)=6.329, p=.502$).
- A statistically significant difference was not found between Native and Nonnative writers in terms of total boosters frequency ($X^2(60)=78.430, p=.055$).

Markedly discrepant from other statistical findings, the chi-squire results did not yield a statistically significant difference between NWs and NNWs in all categories but for adverbial boosters frequency, which is easily seen in the explanations.

4.4. Qualitative Analysis Results

The present title encompasses some subtitles not to prompt confusion, but to provide more clear explanations. All the subtitles are divided into two in itself as *native writer findings* and *non-native writer findings*. The extra-divided titles provided qualitative results that the present study aimed to detect.

Besides, the present title lays the ground for presenting the qualitative findings which are composed of authentic sentences from NW and NNW corpora. In addition, the lexical collocations, hedges, and boosters that NWs and NNWs used in the sample corpora were provided under a list in related subtitles. Thanks to these lists, it is expected that reader will find the chance of seeing the collocations, hedges, and boosters both NWs and NNWs used in their scientific articles.

The real examples and the lists that were constructed through NW and NNW corpora are expected to sensitise academic scholars to appropriate use of these lexical components, and also are expected to provide a baseline for prospective academic writing efforts. For a better insight, it was endeavoured to give brief examples than voluminous ones. The sample examples were selected from the pivot words that were collocated with the highest frequency in each category.

As last but not the least, the present title allows us to see NWs' and NNWs' general lexical tendencies while they decide to make a word combination, i.e. collocation; to mitigate their statements, i.e. hedging, and to increase their authorial commitment, i.e. boosting.

4.4.1. Lexical collocation

4.4.1.1. Native writer findings

VERB + NOUN

The appendix 1 provided *verb* + *noun* word combinations that NWs used in their academic articles. According to the findings, this category included 861 word tokens and 400 word types. If the category is examined closely it is absolute that five pivot words that were mostly used are respectively; "make, provide, give, gain, and attention". Some authentic examples including most frequently used pivot words are like following:

(1) Ellis (1993) argued for the importance of having a grammatical syllabus to <u>make provision</u> for an explicit focus on individual grammatical forms...

(2) ... that students were able to make gains with a variety of forms...

(3) The entire departmental teaching staff (n = 28) was then interviewed to <u>provide an insight</u> into the ramifications of context...

(4) It provided evidence that...

(5) ... claims that a life history approach provides the opportunity to give voice to women leaders.

(6) It was also given credence by Nation's...

(7) ELT and its affiliated academic units can gain power through their ability to make money.

(8) ... that they can gain flexibility in meeting the language expectations of those contexts.

(9) ... in some circles, but still <u>receives little attention</u> in EAP discussions of students' academic writing.

(10) ... but well grounded solutions, creativity in research and academic writing appears to <u>deserve attention</u>.

As can be seen from the examples, the collocations can be used in simple sentences as well as in more complex sentences including defining clauses or other phrasal clauses.

VERB + ADVERB/ADJECTIVE

The results of concordance program showed that verb + adj./adv. has both less word tokens and word types. This collocation category included 673 tokens and 370 types. The most frequently used pivot words are "become, seem, make, feel, and remain". Ten authentic examples derived from the NW corpus were provided and two real examples from each pivot word were made note, which are:

- (11) It has become almost axiomatic in language attrition research to assume that...
- (12) ... and even then the frequency is starting to become marginal.
- (13) This <u>seems sensible</u>, but despite this, the topic-based focus of many materials means that...
- (14) While it <u>seems intuitive</u> that English language proficiency contributes to the noted vocabulary achievement gap between ELLs and their non-ELL peers...
- (15) The study findings make clear that...
- (16) The small size of our datasets makes it difficult to discuss or draw conclusions about...
- (17) Still, they *feel unsure* about how to teach using media and pop culture.
- (18) ...many teachers may continue to *feel confused* as they struggle...
- (29) However, the question of exactly which writing tasks are required of graduate level students <u>remains unanswered</u>...
- (20) ... if it <u>remained ambiguous</u>, an email was sent to the professor asking for more detail about the assignment.

A note-worthy thing is that NWs generally preferred to use adjectives or adverb in order to increase or mitigate their voices even in building collocations as seen in the example 11. Also, as apparently stated in the appendix 1, that NWs have a large number of collocate words is another attention catching point. For example, the pivot word *become* has 35 collocate words, which may be a testament to NWs' high eligibility in combining words.

NOUN + VERB

When compared to other collocations, noun + verb collocation category is the one with the lowest number of tokens and types. This conclusion can be drawn by the help of the concordance program employed in the present study. The results gave relatively small number of tokens (234) and types (100), which showed that NWs have an inclination of underuse the category noun + verb when compared to other collocation categories. The upshot of concordance word frequency analyses provided the most frequently used pivot words to be "study, show, Table, data, and article". The authentic examples regarding the use of these pivot words are as follows:

- (21) ... this study frequently did not indicate whether exams required essay writing or not.
- (22) The present study did not find essays and short tasks to occur frequently.
- (23) The data in this way shows that...

- (24) The graphs in *Figure 2 show* that...
- (25) <u>Table 1 contains</u> the first nine idea units from her written story...
- (26) These two *tables demonstrate* that...
- (27) ... data were collected was smoothly ascending.
- (28) ... data suggest a partial advantage for one subset of chat output that...
- (29) This **article examines** the extent to which different groups of university students have shared vocabulary needs.
- (30) This <u>article aims</u> to further our understanding of variation in academic vocabulary by...

When the category of noun + verb was examined, it was revealed that the pivot word "study" was collocated 30 times with divergent verbs, which was followed by "Table". This evidenced NWs' tendency in using "study and Table" while making a word combinations in the category of verb + noun.

NOUN + NOUN

Referencing to the appendix 1, it is apparent the category of *noun* + *noun* included 406 word tokens and 220 word types, which is an average number in total when all categories were taken into consideration. The pivot words with the highest frequencies are respectively "lack, learning, knowledge, research, and vocabulary". The examples elicited regarding the pivot words are provided below:

- (31) A lack of fluency can have a major impact on the way English can be used...
- (32) ... several teachers associate extravagances of style, sometimes attempted in the name of creativity, with a <u>lack of clarity</u> in many students' writing.
- (33) Learner variables consist of everything the student brings to the *learning experience*.
- (34) ...but also help to explain the variability found in vocabulary <u>learning outcomes</u> through reading...
- (35) Research within a lexical inferencing paradigm1 has observed strategies and <u>knowledge</u> <u>sources</u> that...
- (36) ... with effects on the creation and <u>dissemination of knowledge</u> and ideology in the global ideoscape...
- (37) There is still a relative *paucity of research* on EL secondary writing development...
- (38) ... the interventions in this study were designed to fill the <u>research gap</u> noted by...
- (39) Although the outcomes in terms of <u>vocabulary acquisition</u> have not been vocabulary learning measured rigorously...

(40) There is greater variation in learners' L2 grammar and vocabulary competence than...

The most repeated pivot word *lack* was collocated by myriad word 15 times, as can be followed in the appendix 1. One more point to be importantly noted down is that the preposition *of* is widely used to conjunct to words in order to have a *noun* + *noun* collocation.

ADJECTIVE + NOUN

Among all categories of collocations that the present study investigated through NW and NNW corpora, the category of *adjective* + *noun* has the highest frequency in both word tokens and word types. The category included 2425 tokens and 1066 types in total, which placed it to the most top in the rank. "Important, difference, significant, effect, and key" are the pivot words ranked from top to less. The examples for each most frequent pivot words are as follows:

- (41) It also emphasizes originality as an *important criterion* for effective response.
- (42) Another equally *important concern* is that poor performance on high-stakes tests disproportionately discourages linguistic and...
- (43) The <u>fundamental differences</u> between the two types of presentation are discussed in Section 3.2.
- (44) The L2-related *individual difference* literature has remained relatively uninfluential within the broader field of SLA.
- (45) Despite significant challenges such as access to limited hardware and infrastructure...
- (46) Students in the winter class made significant improvements in their writing...
- (47) Findings suggested that grades had *little effect* on student writing...
- (48) The ways in which linguistic choices can create <u>different effects</u> and different meaningmaking possibilities might...
- (49) Our analysis of these prompts focused on identifying and tallying the rhetorical processes signaled by <u>key words</u> in the prompts.
- (50) One of the <u>key findings</u> of a recent report by the Royal College of Paediatrics and Child Health (RCPCH) (2008) is...

As seen in the appendix 1, the word of "important" has 36 collocate words, which is followed by the word "significant". The findings may be assessed in a way that native writers have a high tendency in making *adjective* + *noun* collocation by using the words "important and significant" during their academic writings.

ADVERB + ADJECTIVE

The category of *adverb* + *adjective* was heavily used by Anglophonic writers. With a number of 684 word tokens and 349 word types, *adverb* + *adjective* word combinations took up a particular place in NW academic writings. "Highly, relatively, particularly, quite, and clearly" are the top used pivot words by NWs. The authentic examples that these pivot words are used in are stated below:

(51) While such a structure appears to be <u>highly conventional</u>, the difference between this set of materials...

(52) ... students' judgements of effective teaching and learning practices are <u>highly dependent</u> on personal motivations...

(53) This is a *relatively new* idea in listening pedagogy and...

(54) ... the British Academic Written English Corpus (BAWE) suggests that data description assignments are <u>relatively frequent</u> in Science and Mathematics courses.

(55) ...Koutsantoni (2006) argues that this choice is <u>particularly complex</u> in genres where writers are positioned as having a lower status than readers...

(56) The textual data itself suggest that within each stance option, some language resources are *particularly popular*.

(57) The interaction pattern is *quite different* in bus driver dialogues.

(58) Article/book reviews were also *quite common* in this group.

(59) While UNT did not show such a varied response, it was <u>clearly adept</u> at matching context to candidate...

(60) This shift of focus, not to say tension, within the communicative discussion is also <u>clearly</u> <u>evident</u> when...

The data findings apparently showed that NWs prefer to use mostly the pivot words of *highly, relatively, particularly, quite, and clearly* while collocating with others words. As clearly shown in the appendix 1, the word highly has 20 collocates, which represents for a high inclination of NWs into using it.

ADVERB + VERB

Regarding *adverb* + *verb*, 555 word tokens and 313 words built up the category seen in the appendix 1. Furthermore, it was obviously put forward that the most frequently used collocated pivot words are *use*, *widely*, *clearly*, *explicitly*, and *fully*. The

examples show how the pivot words were used in the authentic sentences by non-native writers.

- (61) ...e-learning can be used as an umbrella term as it is understood and was <u>commonly used</u> by most of the teachers...
- (62) Passive structures were *extensively used* in the professional corpus...
- (63) It is *widely argued* in EAP that...
- (64) ... ELF is widely seen as a monolithic English...
- (65) ... our findings raise has to do with the need to <u>clearly define</u> the construct that...
- (66) An example is the student who *clearly expressed* a minority view that...
- (67) Various types of metacognitive knowledge are <u>explicitly introduced</u> during the implementation of vocabulary notebooks.
- (68) ... post-reading tasks <u>explicitly focusing</u> on target words led to better vocabulary learning than...
- (69) It would presumably take nearer the 8,000 Figure to <u>fully exploit</u> this information-rich form of communication.

(70) It is still difficult for us to <u>fully assess</u> to what degree the vocabulary...

Based on the findings indicated in the appendix 1, the last category of collocations paid emphasis on the use of verbs collocated by adverbs.

4.4.1.2. Non-native writer findings

VERB + NOUN

The Table 4.13. provides us information about verb + noun collocations that NNWs used in their academic writings.

Table 4.13.

Verb + Noun collocations in NNW sample corpus.

Achieve communication Achieve the aim Achieve the goal Achieve the purpose Adapt strategy Arouse interest Attract attention Attract interest Avoid making Avoid misunderstanding Be a hindrance Become a focus Become aware Become evident Become head Become popular Build confidence Build knowledge Build self-confidence Cause anxiety Cause a clash Collect data Commit mistake Complete task Conduct a study Construct knowledge Convey message Create a ground Create a venue Create impact Create obscurity Create opportunity Deliver suggestion

Develop familiarity Develop tendency Discard prejudice Display difference Distort message Do homework Draw attention Draw conclusion Draw distinction Draw interest Employ a method Enrich understanding Establish association Examine effect Examine effectiveness Express allegiance Express feeling Extract a message Face difficulty Face problem Facilitate management Feel incapable Find disturbing Find opportunity Follow rules Gain advantage Gain attention Gain importance Gain in-depth understanding Gain insight Gain momentum Gain opportunity Gain popularity

Gain recognition Gain status Gain understanding Get information Get the message Get a job Get reaction Give chance Give example Give feedback Give harm Give idea Give importance Give information Give insight Give opportunity Give responsibility Grant autonomy Have difficulty Have performance Have role Have tendency Have difficulty Keep contact Keep in mind Lead to misunderstanding Learn language Maintain order Make a profit Make assumption Make change Make comparison Make connection

Make distinction Make error Make guess Make mistake Make prediction Make research Make translation Obtain knowledge Offer insight Offer practice Offer solution Offer suggestion Overcome anxiety Overcome challenge Overcome difficulty Pass exam Pav attention Play crucial role Play important role Play key role Play significant role Play role Pose difficulty Pose a threat Prevent bias Prevent misunderstanding Propose solution Provide a prompt Provide access Provide accuracy Provide contribution Provide definition Provide fluency

Provide help Provide information Provide in-depth analysis Provide insight Provide opportunity Provide pathway Provide support Put extra burden Reach agreement Receive attention Receive feedback Receive interest Reconstruct knowledge Remain stable Seem a rush Seem harmless Share a code Share experience Share idea Show parallelism Solve problem Spend time Stay alive Stress the importance Take a step Take responsibility Take time Transmit knowledge Used worldwide Yield better understanding As seen in the Table 4.13., there are 354 word tokens and 193 word types in total. The most repeated pivot verbs are "provide, make, gain, give, and role". The Table also provide us substantially further understanding of collocations that NNWs wrote up in their academic texts. Authentic examples including most frequently used pivot words are stated:

- (71) Since the primary goal of learning a foreign language is to <u>provide fluency</u> and accuracy in written and spoken modes of communication, ...
- (72) In this case, open observations provide the opportunity to experience different context and ...
- (73) I will also present facts and evidence from Japanese Light Verb Constructions to <u>make a</u> <u>comparison</u>.
- (74) I was able to make a connection between the image and the text.
- (75)The teachers gain an opportunity to meet individual students' needs.
- (76) *The study reported in the paper was conducted to <u>gain an understanding</u> of the written assessment...*
- (77) The results of the study give insights into the question types posed by...
- (78) Majority of learners (n=72) stated that learning the target culture may <u>give harm</u> to the home culture in general.
- (79) ... they *have a role* in informal spoken communications...
- (80) In every learning environment, human psychology plays a role.

As seen in the Table, the most repeated pivot provide has 13 collocate words, which means that NNWs have a tendency in collocating the word *provide* in other words while making a *verb* + *noun* collocation.

VERB + ADVERB/ADJECTIVE

The Table 4.14. provides the collocations of verb + adv/adj. that NNWs employed in their academic texts. The concordance program gave a result of 244 tokens and 154 type word in total regarding verb + adv/adj. collocation category. The most repeated pivot word are *become*, *feel*, *use*, *make*, and *seem*, as can be seen in the Table 4.14.

Table 4.14.

Verb + *Adv*./*Adj*. *collocations in NNW sample corpus*.

Adapt quickly Affect directly Affect negatively Affect positively Answer sincerely Be aware Become better Become clear Become clearer Become comprehensible Become distinctive Become easy Become effective Become engaged Become essential Become fashionable Become important Become inevitable Become interested Become necessary Become obligatory Become obvious Become overwhelmed Become perfect Become popular Become proficient Become prominent Become sensitive Become similar Become trendy Chance quickly

Choose randomly Code independently Communicate fluently Communicate successfully Communicate verbally Comprehend correctly Consider carefully Considered important Designed well Differ significantly Do poorly Engage actively Engage eagerly Explain directly Express freely Fall short Feel anxious Feel comfortable Feel confident Feel flexible Feel insecure Feel intimidate Feel nervous Feel obliged Feel proud Feel restricted Feel secure Feel tense Find challenging Find difficult Find interesting

Function successfully Go smoothly Group randomly Grow noticeable Handle carefully Help urgently Improve significantly Interpret cautiously Involve systematically Join together Judge correctly Learn incidentally Learn precisely Make available Make clear Make enjoyable Make meaningful Make indispensible Make pair Make sure Mention previously Occur unconsciously Perform successfully Perceive positively Prove useful Reach beyond React positively Read carefully Relate strongly Rise significantly Seem contradictory

Seem indispensible Seem reasonable Seem reluctant Seem surprising Seem willing Select appropriately Select randomly Show clearly Sound strong Take serious Teach effectively Teach intensively Think critically Understand correctly Use carefully Use economically Use effectively Use efficiently Use fluently Use inaccurately Use interactively Use systematically Use widely Used frequently Used interchangeably Vary significantly Watch carefully Work effectively Work well

Obvious from the Table that the pivot word *become* has 24 disparate collocate words. The authentic sample sentences are:

(81) ... the influence of foreign language anxiety <u>becomes more important</u> as learners' instructional level increases.

- (82) Many good readers have been reported to automatically <u>become engaged</u> in this interactive process.
- (83) They also felt that they needed time and more practice in order to feel more confident.
- (84) Creative drama environment in which such activities take place provides an atmosphere in which students will <u>feel comfortable</u>...
- (85) Semantic word mapping is one of the non-mnemonic vocabulary teaching techniques which has been <u>used widely</u> in language teaching classes.
- (86) ... they *used frequently* in their daily lives.
- (87) In order to make clear distinctions among the levels over B1,...
- (88) ... to make meaningful decisions, they can have ownership in their learning, and ...
- (89) This does not seem surprising, considering the students" educational background and ...

(90) Although these results seemed contradictory with...

NOUN + VERB

The Table 4.15. provides noun + verb collocations that NNWs used in their academic writing. As seen in the Table

Table 4.15.

Noun + Verb collocations in NNW sample corpus.

Analyses include Change to practise Data demonstrate Data include Data provide Data reveal Data were analyzed Data were collected Data were compiled Data were examined Desire to interact Difference were found Figure display Figure illustrate Figure show Findings show Findings suggest Goal is to achieve

Interviews elicit Literature propose Literature reveal Literature show Outcomes reveal Policy maker Program design Research show Results give Results imply Results indicate Results present Results provide Results reveal Results show Results were given Results yield Statistics show

Studies prove Table demonstrate Table display Table manifest Table show Table present Purpose is to reveal Study adopt Study aim Study attempt Study call for Study compare Study conclude Study confirm Study contribute Study demonstrate Study examine Study find

Study give Study include Study intend Study investigate Study point out Study provide Study put forward Study report Study seek Study set out Study show Study suggest Study try Study verify Study was conducted Survey reveal Survey show

159 tokens and 76 word types carried the category to the very back in the frequency rank. In other word, the present category included the least amount of collocations in NNW corpus. Furthermore, the Table shows that the most repeated pivot words are respectively "study, results, show, data, and reveal". The most frequently used pivot word study has 26 collocate words, which is relatively high when compared to collocates of the other pivot words. In order to understand the real uses of collocations, the authentic examples were provided:

- (91) The results of the study showed that there...
- (92) The results of the study indicated that families...
- (93) The statistical *results presented* in Table 1 and 2 reveal that the students...
- (94) ... the *results showed* that instructors...
- (95) Both qualitative and quantitative <u>data revealed</u> that their instrumental orientation...
- (96) <u>Data were collected</u> from 266 high school students in Turkey during the Spring semester of 2011-2012.

NOUN + NOUN

It is apparently understood from the Table 4.16. that the most frequently used pivot words in frequency order are "lack, language, skill, anxiety, and learning". The total token amount is composed of 246 words while the word types are composed of 147 words. The most repeated pivot word has eight collocate words as seen in the Table 4.16. You can find real examples collected from the NNW corpus as follows:

- (96) ... all the students pointed to their lack of competence in vocabulary knowledge...
- (97) There is a lack of research comparing the effectiveness of...
- (98) ... new trends in *language learning* and teaching have started to emerge.
- (99) ... studies investigating the nature of foreign language anxiety and ways of overcoming...
- (100) ... poor listening skills, ambiguous use of verbal and nonverbal language...
- (101) It is possible that they have some presuppositions about communication and <u>communication</u> <u>skills</u> which...
- (102) <u>Language anxiety</u>, as Horwitz, Horwitz and Cope (1986) suggest, is a distinct complex of self-perceptions...

Table 4.16.

Noun + Noun collocations in NNW sample corpus.

Acquisition process Added variables Answer key Body language Career purposes Class participation Collection of work Communication skill Comprehension process Course material Creative thinking Cultural competence Curriculum development Data collection Data set Decision-making process Degree of attention Depth of understanding Diary writing Disarmament treaty Discussion group Education programme English proficiency Error correction Eve contact Fall term Fear of failing

Fear of failure Feedback process Feeling of detracting Field of investigation First step Gender difference Gender equity Gender inequality Global peace Good excuse Hierarchy of difficulty Human learning Lack of competence Lack of confidence Lack of credibility Lack of knowledge Lack of information Lack of material Lack of opportunity Lack of research Language acquisition Language anxiety Language improvement Language learning Language performance Learner autonomy Learning environment

Learning goal Listening skill Literature review Material development Matter of debate Mother tongue Need for success Need for secure Participants of the study Peer feedback Peer review Preparation program Primary goal Proficiency level Pronunciation error Pronunciation problem Public order Punctuation mark Reading comprehension Reading skill Research question Review of literature Role play Sampling method Sense of burden Shift of focus Shortage of research

Sign system Solution to problem Source of information Speaking anxiety Speaking skill Speech anxiety Spring term Step forward Student feedback Subject matter Success level Target group Target language Teacher development Tool of participation Transfer of knowledge Transmission period Vocabulary acquisition Vocabulary instruction Vocabulary knowledge White lie Window of opportunity Word association Work load Writing anxiety Writing competency Writing skill

ADJECTIVE + NOUN

As the Table 4.17 indicated, the category of *adjective* + *noun* is the collocation type with the highest number of tokens and word types. According to the findings obtained from the concordance program, there are 1144 word tokens and 551 word types in total, which is the highest amount belonging to only one category when compared to other categories of collocations. The most frequently used pivot words are "effect, significant, important, role, and positive". Further to say, the pivot word *effect* was 20 collocate words, which is followed by *significant*. The pivot words appear to prove that NNWs mostly tend to use these words while making *adjective* + *noun* collocations.

The authentic examples regarding the use of *adjective* + *noun* collocation were provided below:

- (103) ...writing activities will have <u>beneficial effects</u> on their communicative skills and future professional lives.
- (104) ...grammar teaching has a <u>delayed effect</u> and an indirect role in converting explicit knowledge into...
- (105) ...submitting a manuscript to a first-tier journal also has a <u>significant advantage</u> since such journals generally...
- (106) ... fear of making mistakes is a <u>significant factor</u> that causes EFL speaking anxiety on learners.
- (107) ... personal opportunities take *important place* in this category.
- (108) Another *important point* is that as a result of the spread of English worldwide...
- (109) ... in that part, each student plays an active role.
- (110) ... a great deal of research reports the <u>critical role</u> of washback in educative practices
- (111) ... specific tests have been amended so as to exert a *positive influence* on teaching and *learning*.
- (112) ... relaxation exercises can help learners to benefit from a <u>positive effect</u> on both anxiety and success.

As can be seen from the authentic examples, NNWs generally used strong collocations like positive effect, active role, etc. The Table given in the next pages displays the collocations that NNWs used in their academic writing.

Table 4.17.

Adjective + Noun collocations in NNW sample corpus.

Absolute correctness Abstract concept Academic life Academic performance Academic success Academic writing Acceptable limits Active agent Active role Adequate knowledge Administrative support Alarming increase Alternative wav Ambivalent attitudes Appropriate strategy Authentic communication Authentic material Authentic nature Available knowledge Background information Background knowledge Basic conventions Basic element Basic factor Basic knowledge Basic idea **Beneficial effects** Beneficial impact Better condition Better equipped Better idea Better insight Better job

Big difference **Biological differences** Broad term Casual speech Central concern Central principle Challenging problem Classical assumption Clear consensus Clear-cut distinction Clear distinction Clear expectation Clear fact Clear idea Clear instructions Clear picture Clear purpose Clear understanding Clear view Close association Close look Close relation Close scrutiny Challenging skill Challenging task Cognitive development Cognitive process Collaborative enterprise Common core Common examples Common fixture Common knowledge Common language

Common sense Compelling evidence Compelling results Complementary principle Complete picture Complicated process Comprehensible input Comprehensive definition Conceptual framework Concluding remark Conclusive results Considerable development Consistent contrast Constant access Contemporary phenomenon Continuing need Continuous research Contradictory results Controversial issue Controversial matter Controversial status Controversial topic Conventional associations Convincing evidence Core element Creative activity Critical factor Critical feedback Critical modification Critical period Critical perspective Critical point

Critical question Critical review Critical process Critical role Critical thinking Crucial impact Crucial point Crucial role Crystal clear Current debate Current situation Daily activity Daily contexts Daily conversation Daily life Daily task Daunting task Deep understanding Delayed effect Demanding task Demographic factor Demographic information Descriptive study Detailed account Detailed description Detailed examination Detrimental effect Difficult process Digital literacy Diligent work Direct relationship Distinct advantage Distracting emotions

Distinct advantage Divergent effect Dominant language Dominant role Dominant use Driving force Early experience Easy task Educational practice Effective communication Effective factor Effective learning Effective management Effective means Effective measure Effective result Effective role Effective teaching Effective use Effective writing Enjoyable process Emotional appeal Emotional atmosphere Empirical data Empirical study Enhanced understanding Equal importance Equal right Essential element Essential knowledge Essential part Essential problem

Table 4.17. continuing

Everyday decision Exchange information Exciting experience Existing literature Existing knowledge Existing problem Expected result Experiential knowledge Extensive use Extensive work External factors Facial expression Facilitating effect Faulty articulation Faulty pronunciation Faulty use Feasible ways Financial problem Fixed set of Financial opportunity Finite number Flexible access Foreign language Formal assessment Fruitful process Frustrating experience Full agreement Full impact Functional difference Fundamental aspect Fundamental factors Fundamental problem Further attempt Further example

Further research Further studies Further work General agreement General idea General knowledge General statement General tendency Globalising world Good communication Good idea Good indicator Good model Good step Grammatical competence Grave defect Great effect Great enthusiasm Great help Great idea Great importance Great influence Great problem Great use Growing interest Growing need Harmful effect Heavy burden High consistency High impact High rate Higher salary Holistic meaning Holistic perspective

Holistic view Hot debate Hot topic Ill formed Immediate effect Important component Important consideration Important contribution Important drawback Important effects Important element Important factor Important finding Important role Important part Important place Important point Important predictor Important principle Important source Important thread Inadequate knowledge Inappropriate content Incorrect answer Incorrect usage Increasing advocacy Increasing interest Increasing popularity Increasing power In-depth data Independent learning Independent researcher Indispensible component Individual difference

Inefficient use Inevitable part Inevitable rise Influential factor Influential role Innovative use Instant decision Instrumental value Integral part Interesting data Interesting fact Interesting finding Internal consistency International language Interpersonal relationship Intriguing debate Intrinsic motivation Invaluable insight Key component Key factor Key feature Key implication Key point Key provision Key role Key term Key word Known fact Large body Large scale Leading role Limited access Limited capacity Limited interest

Limited progress Limited knowledge Linguistic awareness Linear combination Linear data Linguistic achievement Linguistic competence Linguistic imperialism Little contradictory Little control Little difference Little research Laboured effort Macro effect Main concern Main effect Main factor Main focus Main idea Main implication Main indicator Main objection Main problem Main referent Major aim Major role Major motive Major source Mandatory step Meaningful difference Meaningful way Meticulous review Micro effect Minor change

Table 4.17. continuing

Minor difference Missing answer Mixed feeling Multiple intelligence Mutual interesting Mutual relationship Mutual understanding Native-like fashion Native speaker Natural appetite Natural forces Natural part Natural phenomenon Negative attitude Negative correlation Negative effect Negative expectation Negative feeling Negative impact Negative relationship Negative thought Negative transfer Negative view Neutral process New idea New pursuit New trend Notable effort Notable outcome Noticeable impact Obvious need Ongoing process Open to discussion Optimistic attitude

Oral competence Oral presentation Oral proficiency Overall picture Overall understanding Outside world Particular aim Particular action Past experience Patriotic feeling Pedagogical implications Pedagogical purpose Pedagogical recommendation Perfect candidate Perfect harmony Personal belief Personal connection Personal development Personal effect Personal opinion Pioneer work Political reason Poor study Positive attitude Pivotal role Poor development Popular field Popular topic Positive contribution Positive correlation Positive development Positive disposition Positive effect

Positive feeling Positive influence Positive relationship Positive result Positive role Positive statement Positive transfer Positive view Possible rejection Potential danger Potential threat Powerful predictor Practical suggestion Practical value Pragmatic question Precise meaning Preparatory program Pressing need Previous experience Primary impetus Principal tool Prior knowledge Problematic area Problematic issue Problematic point Productive skill Professional training Profound effect Prominent factor Prominent role Prominent shift Promising finding Rapid development Rapid growth

Real challenge Real context Real effort Real purpose Realistic solution Reasonable level Reasonable solution Recent studies Representative sample Rising popularity Rough idea Routine activity Oualitative analysis Ouantitative analysis **Oualitative** data Ouantitative data **Oualitative study** Ouantitative study Serious critique Serious delay Serious need Side effect Significant advantage Significant change Significant contribution Significant determinant Significant difference Significant effect Significant factor Significant feature Significant finding Significant impact Significant implications Significant improvement

Significant issue Significant place Significant predictor Significant problem Significant relationship Significant result Significant role Significant variable Similar manner Similar point Similar problem Similar problem Similar results Simple process Slight difference Small scale Social adaptation Social environment Social inequality Social interaction Social life Social norms Social setting Social status Special assessment Special care Special role Specific meaning Striking difference Striking point Strong influence Strong link Starting point Stressful process

Table 4.17. continuing

Strong impression Strong impact Strong relation Static concept Statistical analysis Strict adherence Strong factor Strong foundation Strong ties Strong uncertainty Substantial change Successful interaction Successful outcome Survival issue Survival need Teaching strategy Technical incapability Technological development Theoretical background Theoretical disagreement Tight schedule Tiresome process Traditional method Tremendous effect Ultimate aim Ultimate control Ultimate product Underdeveloped country Underlying factor Underlying reason Undesirable effect Unfamiliar sound Unfamiliar word Unfamiliar word Unknown vocabulary Unknown word Urgent need Utmost importance Useful innovation Useful insight Useful material Utmost need Utilitarian benefit

Vague understanding Valid idea Valuable information Valuable insight Valuable knowledge Valued member Various challenge Various experiences Varying effect Vicarious experience Vicious circle Visual aid Visual cue Visual stimulus Vital effect Vital role Well-established fact Well-known fact Wide variability Widening horizon Widening scale Widespread acceptable Worldwide use Worldwide use Worthwhile difference Wrong guess Wrong inference Young people

ADVERB + ADJECTIVE

The Table 4.18 shows the collocations that NNWs used in the combination of adverb + adjective. As it can be easily seen, there are 222 word tokens and 120 word types. The most frequently used pivot words are "quite, highly, relatively, high, and important". It seems that the most repeated pivot word *quite* has 14 different collocate words.

Table 4.18.

Adverb + Adjective collocations in NNW sample corpus.

Always available Clearly important Closely high Closely linked Closely related Commonly negative Completely different Completely new Completely unsuccessful Considerably higher Directly related Disturbingly high Easily accessible Easily available Educationally significant Emotionally frustrating Equally important Equally responsible Equally successful Especially noteworthy Extremely complex Extremely demanding Extremely difficult Extremely useful Fairly complex Fairly high Fairly new Fairly well Fully avoidable Fully aware Functionally confusing Generally sufficient Grammatically accurate Grammatically well Highly cooperative Highly critical Highly demanding

Highly developed Highly diverse Highly individualistic Highly interested Highly motivated Highly positive Highly problematic Highly reliable Highly significant Highly successful Highly useful Increasingly effective Interestingly enough Increasingly important Internationally acknowledged Mainly related Mildly positive Minimally distinguishable Mostly negative Mutually exclusive Naturally occurring Mutually understandable Newly born Nothing wrong Partially proficient Particularly helpful Particularly important Particularly impressive Particularly significant Pedagogically correct Pedagogically useful Rapidly increasing Really interested Really interesting Relatively close Relatively hard Relatively little

Relatively new Relatively recent Relatively scarce Relatively small Relatively weak Ouite clear Quite close Quite common **Ouite** daunting Quite different Quite easy Quite extensive Quite frequent Quite high Quite important Quite necessary Quite obvious Quite possible Quite rapidly Quite successful Slightly different Slightly difficult Significantly better Significantly high Socially acceptable Socially responsible Statistically significant Substantially different Totally new Usually understandable Very useful Well developed Well known Well recognized Widely adopted Widely available Widely popular

Authentic examples regarding the use of adverb + adjective that NNWs used in their academic composing are:

- (113) ...the preparatory school curriculum and examination system were *quite different* from that of today.
- (114) ... it is *quite necessary* for the participants to try to develop their reading skills...
- (115) Students also indicated a *highly positive* attitude on their use of...
- (116) In terms of evaluation of the portfolio tasks, some of the students (35%) were highly critical.
- (117) ... activation of these 1000 muscles in the adults is *relatively hard* after puberty.
- (118) ... researchers possess relatively little amount of classroom teaching experience.
- (119) ... the students had a *fairly high* regard for their English language skills
- (120) ... the intensity of it is not disturbingly high.
- (121) Item 5 was *particularly important* on account of the fact that...
- (122) The notions of autonomy and independence possess an <u>increasingly important</u> role in language pedagogy...

ADVERB + VERB

When compared to other categories, the category of *adverb* + *verb* has a moderate number of tokens and word types, 274 and 187, respectively. The most repeated pivot words in that category are "use, affect, widely, actively, and mostly". Below presented a few of the authentic examples from NNW corpus, and then the Table 4.19. shows the collocations in NNW corpus:

- (123) ... teachers can *effectively use* pictures, real objects, stick figures,...
- (124) ... they *frequently used* listening skill in their professions.
- (125) ... focal children negatively affected by "cultural disconnections, disagreements,...
- (126) These ideas seem to be *widely accepted* by language teaching practitioners.
- (127) ... the use of decontextualized tasks as well as contextualized tasks has been <u>widely</u> <u>discussed</u>
- (128) Turkish universities <u>actively take part</u> in student mobility programs in Europe.
- (129) ... language learners *mostly complain* that...
- (130) The control group was instructed in line with what has been mostly accepted as the proper way of teaching vocabulary.

Table 4.19.

Adverb + Verb collocations in NNW sample corpus.

Absolutely be Actively construct Actively engaged Actively involved Actively take part Actively used Accurately pronounced Adequately provide Adversely affect Apparently need Better understand Briefly inform Briefly stated Carefully listen Coherently explain Clearly reveal Clearly seen Clearly show Clearly state Closely associate Chronologically presented Commonly accepted Commonly known Considerably influence Consistently occur Correctly spelled Deliberately adapt Digitally recorded

Directly affect Directly expose Dramatically increase Easily get Easily observed Easily prevail Easily understand Effectively use Explicitly concerned Explicitly state Extensively studied Financially support Fluently speak Frankly speak Frequently used Fully function Further argue Further highlight Generally focus Gradually become Gradually develop Gradually transform Greatly developed Harshly criticize Highly developed Highly value Increasingly become Increasingly embedded Indirectly affect Indirectly learn Intentionally select Intricately interwoven Jointly construct Largely focus Likely to occur Mainly aim Mainly intend Mainly require Mainly used Meaningfully engage Merely focus Mostly accepted Mostly allocated Mostly complain Mostly disagree Mostly used Naturally believed Naturally occur Necessarily mean Negatively affect Noticeably grow Obviously affect Originally administer Poorly applied Poorly equipped Positively affect

Potentially affect Previously stated Primarily concerned Primarily focus Primarily used Primarily influenced Primarily seek. Qualitatively analyzed **Ouite different** Randomly assign Randomly choose Randomly selected Rapidly gain Rapidly increase Really want Recently recognized Regularly update Regularly work Repeatedly point Repeatedly comment Seriously high Severely criticize Significantly change Significantly correlate Significantly outnumber Simply defined Simply note Simply put

Socially constructed Socially shared Specially arranged Specially designed Specially trained Spontaneously interact Statistically analyzed Strictly follow Strongly advise Strongly agree Strongly disagree Systematically coded Traditionally held Universally used Usually expected Usually intend Well used Widely accepted Widely acknowledge Widely agreed Widely discussed Widely studied Widely used Willingly participate

Up to now, the number of tokens and types, and the most repeated pivot words that NWs and NNWs used were mentioned under different subtitles. The Table 4.20. provides a summary of what has been given so far.

Table 4.20

The categorical comparisons of pivot words that NWs and NNWs used.

		Native W	riters		Non-native Writers		
Variables	Types	Tokens	Pivot Words	Types	Tokens	Pivot Words	Common pivot words
Verb+Noun	400	861	Make Provide Give Gain Attention	193	354	Provide Make Gain Give Role	Provide Make Gain Give
Verb+Adj./Adv.	370	673	Become Seem Make Feel Remain	154	244	Become Feel Use Make Seem	Become Seem Make Feel
Noun+Verb	100	234	Study Show Table Data Article	76	159	Study Results Show Data Reveal	Study Show Data
Noun+Noun	220	406	Lack Learning Knowledge Research Vocabulary	147	246	Lack Language Skill Anxiety Learning	Lack Learning
Adjective+Noun	1066	2452	Important Difference Significant Effect Key	551	1144	Effect Significant Important Role Positive	Important Significant Effect
Adverb+Adjective	349	684	Highly Relatively Particularly Quite Clearly	120	222	Quite Highly Relatively High Important	Highly Relatively Quite
Adverb+Verb	313	555	Use Widely Clearly Explicitly Fully	187	274	Use Affect Widely Actively Mostly	Use Widely

4.4.2. Lexical hedging

By being further divided into two as Native writer findings and Non-native writer findings, the present title provided information on the most frequent lexical hedges that NWs and NNWs included in their scientific texts. Furthermore, NWs' and NNWs' general lexical hedge tendencies were evidenced through authentic examples collected from the corpora.

4.4.1.1. Native writer findings

EPISTEMIC MODALS

The qualitative investigation of NW corpus indicates that NWs are more prone to using *may* than any other epistemic modals while downtoning their statements. Below you see the authentic examples collected from NW corpus.

- (131) ... speakers of more distant languages <u>can</u> be expected to encounter fewer difficulties...
- (132) ... Future work that explores these qualitative differences <u>could</u> substantially further our understanding of ...
- (133) ... dominant norms for expert writers <u>may</u> not be a dominant norm for second language student writers...
- (134) ... local languages *might* work together as languages of education...
- (135) The target *should* be the acquisition of a multilingual model.
- (135) It <u>would</u> seem possible to argue, therefore, that...

In the form of lexical and referential markers, NWs generally use hedging devices such as may and might in order to create an indirectness situation in their statements. The Figure 4.7. shows the epistemic modals acting as hedges in frequency order. As seen, while the least frequent modal hedge is *would* by NWs, the most frequently used *is may*.



Figure 4.7. Epistemic Modals acting as Hedges Used in NW Sample Data (Top-down Order).

VERBAL HEDGES

Point of view distancing is an important rhetorical hedging style done generally by verbs acting as hedges. In a similar vein, the qualitative analyses reveal that it is widely used by NWs. The evidential verbs (look, seem) appear to be rather common in the NW sample data. The Table 4.21. provides verbal hedges that were found in NW sample data.

Table 4.21.

Verbs acting as Hedges Used in NW Sample Data.

1.	Advise	10. Consider	19. Indicate	28. Propose
2.	Anticipate	11. Demonstrate	20. Look	29. Report
3.	Appear	12. Display	21. Maintain	30. Reveal
4.	Argue	13. Estimate	22. Observe	31. Seem
5.	Assert	14. Expect	23. Offer	32. Show
6.	Assume	15. Feel	24. Prone to	33. Suggest
7.	Attempt	16. Find	25. Postulate	34. Surmise
8.	Believe	17. Guess	26. Predict	35. Tend to
9.	Claim	18. Hope	27. Presume	

Apparent from the Table that NWs used 35 verbal hedges in order to make the language more tentative for a number of reasons. It seems that point of view distancing is generally realised by combination of a pronoun and a verbal hedge. The authentic examples from NW data prove the strong correlation between pronouns and verbal hedges.

- (136) In this light, we <u>advise</u> literacy educators and assessment designers to consider...
- (137) ... they may *assume* that AAL patterns are representative of poor English grammar.
- (138) ... post hoc analysis did <u>reveal</u> the intriguing case of...
- (139) We hope that the concept of mid-frequency vocabulary will lead...
- (140) we <u>attempt</u> to illustrate some of the benefits of researching 'with' children.

Another momentousness that the qualitative analyses detected is the frequency of verbal hedges. The verbs "suggest, tend to, reveal, appear, and show" are among those which are used more frequently than other verbs in NW corpus. In other words, NWs

have a tendency of using these verbs while creating a point of view distancing in the claims they make.

ADJECTIVAL HEDGES

Adjectives acting as hedging devices appear not to be as common as verbal hedges in NW corpus (see Table 4.22.). Yet, they take up a considerable place in NWs' academic writings. The Table 4.22. shows the adjectival hedges that NWs included in their scientific production.

Table 4.22.

Adjectives acting as Hedges Used in NW Sample Data.

1.	Advisable	7.	Possible
2.	Conjunction with	8.	Potential
3.	In consistent with	9.	Probable
4.	Harmony with	10.	Slight
5.	In line with	11.	Subtle
~	D		

6. Partial

As seen from the Table 4.22., 11 different adjectives functioning as hedges were included in the NW sample data. On the other hand, the qualitative analyses showed that NWs are prone to using adjectives such as possible, potential, partial more than others as seen in the authentic examples:

- (141) One **possible** source of the problem is the underdeveloped area of...
- (142) It then discusses the *potential* exploitation of the learner corpus for pedagogic purposes.
- (143) The present data suggest a <u>partial</u> advantage for...
- (144) ... some more *subtle* distinctions might be useful for some applications.
- (145) Although there was a <u>slight</u> increase in the use of...

As seen from the authentic examples, NWs prefer to use a tentative language by using adjective in front of word that may represent the writer's assertiveness. For example, instead to say *one source*, they prefer to use the adjective *possible* so as not to be seen too certain. Shortly, adjectival hedges are preferred, though mildly usage.

ADVERBIAL HEDGES

Qualitative analyses showed that discourse understatements (fairly, rather, slightly) are commonly used as adverbial hedges. You may find adverbs functioning as hedges obtained from NW corpus particularly built up for the present study in the Table 4.23.

Table 4.23.

Adverb	os acting as	Hedges Used in NW Sample Data.
1	About	13 Occasionally

1.	About	13. Occasionally	25. Rarely
2.	Almost	14. Often	26. Rather
3.	Approximately	15. Partially	27. Reasonably
4.	Arguably	16. Partly	28. Relatively
5.	Fairly	17. Perhaps	29. Roughly
6.	Frequently	18. Possibly	30. Seemingly
7.	Generally	19. Potentially	31. Slightly
8.	Hardly	20. Predictably	32. Sometimes
9.	Largely	21. Presumably	33. Somewhat
10.	Likely	22. Primarily	34. Supposedly
11.	Mostly	23. Probably	35. Usually
12.	Nearly	24. Quite	36. Virtually

As seen from the Table, 36 different adverbial hedges were used by NWs. In the previous titles, NWs' superiority over NNWs in terms of lexical diversity was made clear. Similarly, it seems that NWs widely used the adverbial hedges in order to balance their stance between commitment and detachment. The manually conducted scanning revealed that NWs have more inclination to using some adverbs than other adverbs. For example, adverbs like about, generally, seemingly, mostly, largely, and usually were more common across NW sample data. Some authentic examples regarding the use of these adverbs were provided in the following:

(146) It was generally easy for them to check concordance structures...

(147) Given the seemingly infrequent transfer here, these are pertinent questions

(148)... obtained in previous research, which *mostly* found moderate relationships.

- (149) Southern White English is a localized dialect of American English which is <u>largely</u> constrained to...
- (150) ... where male authors *usually* do not have a strong presence...

Not only discourse understatements, but also downtoners (almost, partly, hardly, etc.) were also observed heavily in NW sample data. Some authentic examples are:

(151) Ellipsis is a central feature of all trades talk, *partly* because of...

(152) Much of the *hardly* voluminous research in this area has centred on...

(153) he sample contained an <u>almost</u> equal balance of...

QUANTIFIERS / DETERMINERS

It seems that while quantifiers function in a way of vagueness and ambiguity (several, much, more, etc), determiners function as diminutives (little, few etc.). In other words, beside diminutive words, vague and ambiguous words acting as hedges are collected in the NW sample data. And it was observed thanks to the quantitative analyses that they are used on a wide scale. The Table 4.24. shows the quantifiers and the determiners that were included in NW corpus.

Table 4.24.

Quantifiers and Determiners acting as Hedges Used in NW Sample Data.

1. (a) few	6. Much	11. To a lesser degree
2. (a) Little	7. Not all	12. To a minor extent
3. Many	8. On occasion	13. To an extent
4. More or less	9. Several	14. To some extent
5. Most	10. Some	

As seen in the Table, 14 different quantifier/determiners were use by NWs in order to create a vagueness or ambiguity in the statement for some reasons. Below you may find some examples including vague, and ambiguous quantifiers /determiners.

(154) Several factors make important contributions to sophisticated vocabulary learning from...

(155) <u>To an extent</u>, one could argue that...

(156)... genre differences explain much of the variation between texts and...

Apart from vague and ambiguous lexical quantifiers, some determiners which function as diminutives were found in the NW data. Some real examples collected from NW corpus are provided:

(157) <u>A few</u> studies controlled for background knowledge.

(158) Since weaker learners experience difficulty and <u>little</u> success in lexical inferencing.

NOUNS

Qualitatively analyzed findings indicate that hedging the statements through nouns is not common in NW academic writing when compared other lexical indirectness structures. Yet, as observed in the Table 4.25., there are a number of nouns which were used as hedging devices in NWs' scientific writings.

Table 4.25.

Nouns acting as Hedges Used in NW Sample Data.

1. Assertion	7. Majority
2. Assumption	8. Possibility
3. Attempt	9. Prediction
4. Claim	10. Probability
5. Estimate	11. Suggestion
6. Expectation	12. Tendency

12 nouns acting as hedging device were noted down. Among all these nouns, some of them such as "majority, assumption, suggestion, and tendency" were preferred more frequently in comparison to other nouns shown in the Table. A few real examples extracted from NW corpus are shown below:

(159) ... it currently represents the 'marked' case for the *majority* of US schools.

(160) An <u>assumption</u> could be made that candidates with a Bachelors degree would...

(161) This suggestion for language-focused instruction stems from the lower use of...

(162)... students had a *tendency* to engage in self-assessment...

(163) One <u>attempt</u> to answer this question is provided in...

4.4.2.2. Non-native writer findings

EPISTEMIC MODALS

The qualitative analyses proved that NNWs are more prone to using *can* instead of *may*, which is in contrast to NWs who preferred *may* to *can*. As seen in the Figure 4.8., five modals were employed by NNWs in the process of academic writing. The findings also proved that NNWs did not use *would* with a purpose of indirectness device as NWs did.



Figure 4.8. Epistemic Modals acting as Hedges Used in NNW Sample Data (Top-down Order).

Some authentic examples were picked up in NNW corpus, which are shown below:

(164) The strong influence of gender norms on our behaviour <u>can</u> be explained by...

(165) ... but they <u>may</u> cause serious unhealthy gender stereotypes.

(166) ... the reasons for this <u>might</u> stem from (a) Turkey being geographically far away from...

(167) These simple steps <u>could</u> promise a lot to EFL learners...

(168) Preparing a child for the future life *should* mean to give him command of himself...

Another point learnt by qualitative analyses is that modals, *can* and *may*, built up the total epistemic modal usage almost three out of four, which may be seen as a determination in using *can* and *may* by NNWs on an outperforming scale over other epistemic modals.

VERBAL HEDGES

As aforementioned, verbs acting as hedges function as a point of view distancing generally together with pronouns. As it was in NW sample data, NNW corpus analyses showed a similar result. NNWs usually used verbal hedges with a purpose of view distancing. Another observed point is the extensive use of evidential verbs. The Table 4.26. shows the verbs that NNWs included in their scientific writings.

Table 4.26.

Verbs acting as Hedges Used in NNW Sample Data.

1.	Allege	11. Demonstrate	21. Look	31. Prone to
2.	Appear	12. Display	22. Maintain	32. Propose
3.	Argue	13. Expect	23. Mention	33. Seem
4.	Assert	14. Feel	24. Observe	34. Show
5.	Assume	15. Find	25. Offer	35. Suggest
6.	Attempt	16. Guess	26. Recommend	36. Suppose
7.	Believe	17. Hope	27. Report	37. Surmise
8.	Claim	18. Hypothesize	28. Reveal	38. Tend to
9.	Consider	19. Imply	29. Predict	
10.	Correlate with	20. Indicate	30. Presume	

The Table obviously shows that 38 different verbal hedges were used by NNWs. Despite numerical closeness, there are some marginal differences in terms of verb using. For example, the qualitative findings showed that NNWs did not use the verbs *advise, anticipate, estimate,* and *postulate* while NWs used. Similarly some other verbs that were included in NNW data were not tracked in NW corpus, which are *allege, hypothesize, imply,* and *recommend.* Some authentic examples including these specific verbs were stated below:

- (169) They *hypothesize* that in acquiring an L2, the learner adopts...
- (170)... performance differences in this study *imply* the basic language skills...
- (171) Definitions and description of types of misbehaviours provided by the participants <u>appear</u> to be similar to...
- (172) A great number of the teachers *believe* that...
- (173) The results *indicate* that the purpose of examinations is...
- (174) The same result was *found* by Chacon

More, the qualitative findings proved that NNWs have a marginal tendency toward using some verbal hedges more than others, which are *appear*, *believe*, *find*, *indicate*, *offer*, *reveal*, *seem*, and *show*. Frequency difference among verbs is not unique to NNWs, which is a situation observed also in NW corpus.

ADJECTIVAL HEDGES

The qualitative analyses show that NNWs do not tend to use adjectival hedges as much as other hedge categories. The adjective acting as hedges are "consistent with, in conjunction with, in line with, in tune with, simple, possible, potential, and probable". In other words, eight adjectival hedges were discovered in NNW corpus. Of all, it seems that the word of *possible* is the most preferred adjectival hedges by NNWs. Some authentic examples collected from NNW corpus are given below:

- (175) There appears to be three **possible** reasons for...
- (176)... it is *possible* for teachers to face with...
- (177) In order to minimise the *potential* threat of an FTA, participants mitigate...
- (178)... it is quiet **probable** to mispronounce a vocabulary item.
- (179)...language exchange communities increased the level of English exposure, which is <u>in tune with</u> Krashen's comprehensible input.

ADVERBIAL HEDGES

The qualitative findings revealed that adverbial hedges, which are used as downtoners, take up a significant place in NNW academic writing. Also, the findings put forward that 37 different adverbs were included in NNW data, which is a robust number when the numbers of all other categories were taken into consideration. It was also observed that NNWs have a tendency of using discourse understatements in their scientific writings. You may see the Table 4.27. that includes adverbial hedges that NNWs used. In pursuit of the Table, authentic examples follow.

Table 4.27.

Adverbs acting as Hedges Used in NNW Sample Data.

1.	Almost	14.	Nearly
2.	Approximately	15.	Occasionally
3.	Easily	16.	Often
4.	Fairly	17.	Partly
5.	Frequently	18.	Partially
6.	Generally	19.	Possibly
7.	Hardly	20.	Potentially
8.	Largely	21.	Predictably
9.	Likely	22.	Presumably
10.	Mainly	23.	Primarily
11.	Maybe	24.	Probably
12.	Mildly	25.	Quite
13.	Mostly	26.	Rarely

27. Rather
 28. Reasonably
 29. Relatively
 30. Roughly
 31. Slightly
 32. Simply
 33. Sometimes
 34. Somewhat
 35. Supposedly
 36. Usually
 37. Virtually

(180) ... we see that while MCC group *mostly* used...

(181) ... students are *likely* to rapidly forget words...

(182) <u>Almost</u> all of these concepts are...

(183)... nearly everyone believes that...

(184) ... teachers <u>often</u> explain the aim of each lesson...

Finding also indicated that some adverbs are much more used than other adverbs. To provide information more specifically, it appears that discourse understatements slightly outperform downtoners in adverbial hedge category.

QUANTIFIERS / DETERMINERS

Whether for vagueness and ambiguity or for a diminutive function, quantifiers and determiners are important factors in hedging the authorial involvement. In spite of the fact that there are not many quantifiers or determiners functioning as hedging devices, the existed ones are extensively used in academic writing. The list in the Table 4.28. shows quantifiers and determiners acting as hedging devices in NNW corpus.

Table 4.28.

List of Quantifiers/ Determiners in NNW corpus.

1.	(a) few	4.	Many	7.	To some extent
2.	Fewer	5.	Most	8.	Several
3.	(a) Little	6.	Much	9.	Some

As seen in the list, NNWs have nine quantifiers/determiners functioning as hedges. Another finding is NNWs' high tendency in using *many*, *most*, and *some* more than any other quantifiers/determiners. Below, you may find some real examples picked up in NNW data.

(185) Teaching of a language has <u>many</u> sub-considerations.

(186) <u>Most</u> of the teachers may not make use of this fact...

(187)... they can exert some influence and control their environment,...

(188) ... there were optimistic results to some extent

(189) ... <u>much</u> of this knowledge is culture specific.

The qualitative findings also showed that NNWs tend to use diminutives and vague or ambiguous lexical quantifiers/determiners.

NOUNS

NNW sample data were qualitatively analysed and based on the findings, ten nouns acting as hedges were discovered. Chronologically ordered, they are *assumption*, *belief*, *inclination*, *majority*, *possibility*, *predictable*, *presupposition*, *recommendation*, *suggestion*, and *tendency*. But, it is hard to talk about a plethora of noun hedges in NNW corpus. Some authentic examples regarding the use of nouns are stated below:

(190) ... speakers have a *tendency* to identify the unfamiliar sounds...

(191) There is generally a higher **possibility** to publish in a journal...

(192) Another suggestion might be to reconsider the cultural topics...

(193) Qualitative analysis is completed with a <u>belief</u> that...

(194) These findings are *predictable* considering the background of the participants.

(195) ... the *majority* of the participants enjoyed...

Furthermore, the findings revealed that NNWs are prone to robustly using the nouns as *suggestion, majority,* and *tendency* when compared to other nouns, which the epitomes were shown.

4.4.3. Lexical boosting

As it was with the previous title, the present title was further separated into two as *Native writer findings* and *Non-native writer findings* so that the findings could be displayed in a more clear way. Besides, each title was enriched with authentic examples, which enable us a better insight regarding real usages of the lexical boosters in their contexts.

4.4.3.1. Native writer findings

MODALS

Together with directives such as *must* and *need to*, the qualitative analyses showed that five modal boosters (including auxiliary verb *will*) were used throughout the NW corpus, which chronologically are *has/have to*, *must*, *need to*, *cannot*, and *will*. Some authentic examples regarding the use of these modal boosters were given below:

(196)... individual speakers *have to* use their L1.

(197) ... English must reflect the cultural norms of its speakers.

(198) ... we need to consider adopting a more social perspective of SLA.

(199) This will provide the child with a sense of identity...

(200) ... the primary frame of instruction *cannot* thrive or survive without attention...

Also discovered that NWs are prone to using diminutives more than other auxiliary verbs such as *will* and *has/have to*. Despite small number of modal lexical diversity, modal boosters widely spread across NWs' articles.

VERBAL BOOSTERS

According to the findings, twelve boosting verbs were employed by NWs, which are provided in the Table 4.29.

Table 4.29.

List of Verbal Boosters in NW corpus.

1.	Ascertain	7.	Essentialise
2.	Boost	8.	Evidence
3.	Confirm	9.	Oversimplify
4.	Corroborate	10.	Prove
5.	Demonstrate	11.	Testify
6.	Ensure	12.	Verify

The qualitative examination of NW sample data showed that NWs do not have a marginal tendency in using verbal boosters in their academic writings. Also, it was seen that NWs inclined to use the verbal boosters of *confirm, prove,* and *verify* more than other verbal boosters. The examples demonstrate how NWs committed to their statements through verbal boosters.

(201) Data from the case studies,...., <u>confirm</u> the impression that...

- (202) ...the approach that served them well in the classroom will <u>prove</u> equally effective in the office.
- (203) From these figures we can verify that...

(204) English language proficiency assessments are used to ensure that...

(205) The writers here appear to confirm...

The examples of 203 and 205 revealed an authorial stance of commitment together with detachment. In other words, it was resulted in that NWs use verbal boosters together with a hedging device, though it should be regarded as assertive statements.

ADJECTIVAL BOOSTERS

The analyses indicated that NWs have an inclination to use adjectival boosters on a large scale. As provided in the Table 4.30., 71 adjectival boosters were noted down, which is a testament to high lexical variety.

Table 4.30.

List of Adjectival Boosters in NW corpus.

1.	Absolute	19. Evident	37. Interesting	55. Rigorous
2.	Apparent	20. Exact	38. Key	56. Robust
3.	Axiomatic	21. Excellent	39. Large	57. Salient
4.	Clear	22. Exclusive	40. Marginal	58. Serious
5.	Comprehensive	23. Exhaustive	41. Notable	59. Significant
6.	Considerable	24. Explicit	42. Noteworthy	60. Staggering
7.	Consistent	25. Extensive	43. Noticeable	61. Stark
8.	Constant	26. Full	44. Obligatory	62. Straightforward
9.	Critical	27. Fundamental	45. Obvious	63. Striking
10.	Crucial	28. Great	46. Only	64. Strong
11.	Distinctive	29. High	47. Overwhelming	65. Substantial
12.	Dominant	30. Important	48. Persistent	66. Unbridgeable
13.	Dramatic	31. Impressive	49. Pioneering	67. Unclear
14.	Effective	32. In depth	50. Powerful	68. Unexpected
15.	Eminent	33. Indispensible	51. Prominent	69. Unique
16.	Enormous	34. Inevitable	52. Predominant	70. Vast
17.	Entire	35. Intense	53. Radical	71. Vital
18.	Essential	36. Intensive	54. Remarkable	

Among all adjectives given in the Table, a few were more robustly used. For instance, the adjectives *important, apparent, clear, obvious,* and *significant* are used more frequently when compared to other. You may find authentic usages:

(206) An error on a page is an <u>important</u> opportunity in acquisition.
(207) It became <u>apparent</u> that...
(208) It is <u>clear</u> that...
(209) There is the <u>obvious</u> potential here...
(210) IELTS preparation courses play a <u>significant</u> role at...

ADVERBIAL BOOSTERS

A relatively bigger list was provided in the Table 4.31. As understood from the list, NWs have a large adverbial boosters active lexicon. In other words, the high number of adverbial boosters in NW sample data proves their superiority of lexical diversity in the course of academic writing. 91 lexical boosters in the category of adverbs built up the largest lexical booster list among all other boosting categories.

Table 4.31.

List of Adverbial Boosters in NW corpus.

1.	Absolutely	24. Entirely	47. Interestingly	70. Seriously
2.	Always	25. Essentially	48. Invariably	71. Severely
3.	Apparently	26. Evidently	49. Largely	72. Significantly
4.	Astonishingly	27. Exactly	50. Marginally	73. Starkly
5.	Broadly	28. Exclusively	51. Markedly	74. Strictly
6.	Certainly	29. Explicitly	52. Never	75. Strikingly
7.	Clearly	30. Extensively	53. No	76. Strongly
8.	Completely	31. Extremely	54. No doubt	77. Substantially
9.	Comprehensively	32. Firmly	55. Noticeably	78. Surely
10.	Considerably	33. Fully	56. Obviously	79. Surprisingly
11.	Consistently	34. Fundamentally	57. Ostensibly	80. Thoroughly
12.	Constantly	35. Greatly	58. Outstandingly	81. Totally
13.	Critically	36. Grossly	59. Overly	82. Transparently
14.	Crucially	37. Ground-breaking	60. Overwhelmingly	83. Ultimately
15.	Deeply	38. Heavily	61. Perfectly	84. Undoubtedly
16.	Definitely	39. Highly	62. Persistently	85. Unexpectedly
17.	Demonstrably	40. Immediately	63. Pertinently	86. Uniquely
18.	Directly	41. Importantly	64. Predominantly	87. Vastly
19.	Distinctively	42. Impossible	65. Prominently	88. Very
20.	Doubtlessly	43. Incredibly	66. Really	89. Vigorously
21.	Dramatically	44. Inevitably	67. Remarkably	90. Wholly
22.	Easily	45. Intensely	68. Rigidly	91. Widely
23.	Effectively	46. Intensively	69. Rigorously	

Similar to other qualitative findings, the use of some adverbs outperformed the use of other adverbs. The mostly preferred adverbs acting as boosters are *always, apparently, explicitly, obviously, strikingly,* and *significantly*. With respect to real uses, a few examples were shown as follow:

(211) ... the research questions are *always* conceived from adult perspectives...

(212) ... teachers *apparently* err on the side of caution.

(213) ... it significantly differs from that...

(214) This contrasts strikingly with the European Union...

(215) Obviously, there are huge differences in the...

QUANTIFIERS / DETERMINERS

The qualitative examinations revealed that NWs used a large number of quantifiers/determiners in order to show their commitment to their stance. As seen in the following Table, 40 quantifiers/determiners were included in scientific texts by NWs, which is a considerable number in terms of lexical variety.

15. A very high level of

16. A very large number of

18. An established body of

19. Copious amount of

20. Enormous amount

22. Extensive amount of

24. Greatest number of

21. Enormous size

23. Great majority

25. Much greater

Table 4.32.

List of Quantifiers/Determiners acting as Boosters in NW corpus.

17. All

- 1. A considerable amount of
- 2. A good deal of
- A great deal of
 A huge amount of
- 5. A huge number of
- 6. A large amount of
- 7. A large body of
- 8. A large majority
- o Alarge majority
- 9. A large number of
- 10. A lot of
- 11. A sizeable body of
- 12. A substantial amount of
- 13. A substantial number of
- 14. A vast number of
- 26. Much more 27. None of
- 28. Quite

- 29. Relatively large
- 30. So
- 31. So many
- 32. So much
- 33. To a great extent
- 34. Too
- 35. Too great
- 36. Too many
- 37. Too much
- 38. Unmanageable amount of
- 39. Vast majority
- 40. Very much

It was explicitly understood that some quantifiers/determiners were utilized more than others as it was the case in other boosting categories. Mostly used quantifiers /determiners by NWs were shown in the examples collected from the corpus:

(216) The first three articles in this issue <u>all</u> address gender aspects of leadership.

(217) I have learnt *a huge amount of* new words.

(218)... this would very much depend on...

(219) The extensive amount of testing already used in this study...

(220) ... it gives *quite a lot of* room for creativity...

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NOUNS

The qualitative analyses revealed a very small number of noun boosters. *Evidence* and *key* are two nouns that NWs used in their academic writings for the purpose of commitment. In other words, low rate of noun booster usage is common in NW academic writing. It was also understood that the words *key* and *evidence* are used on an equal scale throughout the articles. Some examples obtained in NW sample data are provided below:

(221) Dictionaries are a <u>key</u> lexical resource (222) There is <u>evidence</u> that...

(223) The *evidence* from the statistics indicated that...

4.4.3.2. Non-native writer findings

MODALS

Five modals (including auxiliary verb *will*) were detected in NNW corpus, which functioned as strong boosters. These are *cannot*, *has/have to*, *must*, *need to*, and *will*. NNWs used "cannot" with an aim of mentioning the impossibility in the statement. The examples give deeper insight into understanding the authentic uses of modal boosters.

(224) Without motivation, student achievement *cannot* be ensured.

(225) the students *have to pass an exam in order to be...*

(226) ... the equality of regression slopes also must be tested...

(227) Student teachers <u>need to</u> be taught that...

(228) ... that will provide others to give...

Also, the qualitative finding discovered that the modals --*need to* and *must* were comparatively used more by NNWs.

VERBAL BOOSTERS

The results indicated that eleven verbal boosters were used by NNWs in their academic articles. The results showed that NNWs generally used *confirm, demonstrate,* and *prove* in order to boost their statements and increase their authorial stance over the

claim or on seemingly general utterances. You may find the list of verbal boosters and authentic samples from NNW corpus in the Table 4.33.

Table 4.33.

List of Verbal Boosters in NNW corpus.

1.	Affirm	7.	Flourish
2.	Assure	8.	Make sure
3.	Attest	9.	Prove
4.	Confirm	10.	Validate
5.	Demonstrate	11.	Verify
6.	Ensure		

). Ensure

(229) The results, once more, *prove* that there is a...

(230) ... the system of rules *ensures* that...

(231) ... the researchers *confirmed* this assumption...

(232)... which *demonstrated* that there was no significant difference.

(233) Many studies <u>affirm</u> that...

It was understood from the qualitative analyses that NNWs largely use verbal boosters in order to persuade the reader to the truthiness of their claims, or to the importance and necessity their articles.

ADJECTIVAL BOOSTERS

As it was in NW corpus, NNWs use a large number of adjectival boosters in order to commit to their statements or to create a persuasiveness in the readers. The analyses proved the high inclinations of NNWs on using adjectives while boosting their statements in the process of writing. Below you may find some authentic examples:

(234) It is also <u>apparent</u> that the rates of...

(235) She makes her point very <u>clear</u>...

(236) ... contexts have a crucial impact on...

(237)... gender may be considered an effective factor on...

(238) Another *important* point is that...

(239)... one of the key factors in foreign language teaching is...

As seen from the examples, NNWs used the adjectives *apparent, clear, crucial, effective, important* and, *key* much more than any other adjectives while making assertive or persuasive statements. You may find the adjectival boosters that NNWs included in their academic texts in the Table 4.34.

Table 4.34.

List of Adjectival Boosters in NNW corpus.

1.	Apparent	20. Extensive	39. Irreplaceable	58. Strict
2.	Attractive	21. Drastic	40. Key	59. Striking
3.	Clear	22. Full	41. Mandatory	60. Strong
4.	Clear-cut	23. Fundamental	42. Major	61. Substantial
5.	Complete	24. Great	43. Necessary	62. Surprising
6.	Comprehensive	25. Groundbreaking	44. Notable	63. Thorough
7.	Considerable	26. High	45. Noteworthy	64. Tremendous
8.	Consistent	27. Huge	46. Noticeable	65. Unavoidable
9.	Constant	28. Important	47. Obvious	66. Unclear
10.	Convincing	29. Impossible	48. Overwhelming	67. Undeniable
11.	Critical	30. In depth	49. Perfect	68. Unique
12.	Crucial	31. Indispensible	50. Powerful	69. Unprecedented
13.	Dominant	32. Indisputably	51. Prominent	70. Urgent
14.	Effective	33. Ineffective	52. Promising	71. Valuable
15.	Eminent	34. Inescapable	53. Remarkable	72. Very
16.	Essential	35. Inevitable	54. Rigorous	73. Vital
17.	Evident	36. Intensive	55. Salient	
18.	Excessive	37. Influential	56. Serious	
19.	Exigent	38. Invaluable	57. Significant	

According to the Table, 73 different adjectival boosters were found in NNW corpus, which is an expansive Figure when compared to other adjectives in the category.

ADVERBIAL BOOSTERS

The findings proved that adverbial boosters are rather important for NNWs in order to make a boosting statement or commitment to their say. Also detected that NNWs are prone to using some adverbial boosters marginally more than others, which are *all, always, completely, effectively, obviously,* and *significantly*. Regarding the most

Table 4.35.

List of Adverbial Boosters in NNW corpus.

1.	Absolutely	20. Dramatically	39. Incredibly	58. Radically
2.	All	21. Drastically	40. Inevitably	59. Really
3.	Always	22. Easily	41. Immediately	60. Rigorously
4.	Apparently	23. Effectively	42. Importantly	61. Seriously
5.	Certainly	24. Entirely	43. Ineffectively	62. Severely
6.	Clearly	25. Essentially	44. Intensely	63. Significantly
7.	Completely	26. Excessively	45. Intensively	64. Somewhat
8.	Confidently	27. Exclusively	46. Invariably	65. Strictly
9.	Considerably	28. Explicitly	47. Marvellously	66. Strongly
10.	Consistently	29. Extensively	48. Miraculously	67. Thoroughly
11.	Conspicuously	30. Extremely	49. Necessary	68. Totally
12.	Constantly	31. Gravely	50. Never	69. Truly
13.	Continually	32. Greatly	51. No doubt	70. Undoubtedly
14.	Continuously	33. Fairly	52. Noteworthy	71. Unquestionably
15.	Critically	34. Fervently	53. Noticeably	72. Urgently
16.	Deeply	35. Fully	54. Obviously	73. Very
17.	Definitely	36. Fundamentally	55. Ostensibly	74. Widely
18.	Directly	37. Heavily	56. Overly	
19.	Doubtless	38. Highly	57. Persistently	

As shown in the Table 4.35., 74 different adverbial boosters were included by NNWs in their academic writings. To give further detail, NNWs' high number of adverbial booster diversity evidences their common inclination to use *adverbs*. Some authentic examples were provided:

- (239) ...<u>all</u> learners go through the same learning stages.
- (240) The ELP was <u>always</u> integrated with the daily work of...
- (241)... what I am *completely* against is...
- (242) Another step in *effectively* teaching students how to read materials...
- (243)... such attitudes differed across genders significantly.
- (244) ... school culture *obviously* affect the literacy...

QUANTIFIERS / DETERMINERS

Findings proved a high tendency of using quantifiers/determiners in NNW academic writing. As seen in the Table 4.36., 28 different quantifiers/determiners were used by NNWs with a purpose of increasing their authorial stance.

Table 4.36.

List of Quantifiers/Determiners acting as boosters in NNW corpus.

1.	A good deal	11. A lot of	21. Quite
2.	A great body	12. Far more	22. To a great extent
3.	A great deal	13. Far too	23. To a large extent
4.	A great number	14. Lots of	24. Too
5.	A high number	15. Much more	25. Too often
6.	A huge amount	16. No	26. Too many
7.	A large number	17. None of	27. Too much
8.	A vast amount	18. So	28. Vast majority
9.	A wide body	19. So many	
10.	All	20. So much	

In spite of rich lexical booster diversity shown in the Table, a large numbers of them were used only a few times. However, there are quantifiers/boosters that show a high frequency in NNW corpus, such as *a lot of, quite,* and *all*. For a better insight, you may see the authentic examples below:

(245) It is <u>quite</u> necessary for the participants to...
(246) Such clauses occur <u>quite</u> frequently in...

(247) <u>All</u> these studies put forward the remarkable influence of...

(248) ... <u>a lot of</u> experience has been done.

NOUNS

The qualitative analyses compiled the noun boosters and the findings were provided in the Table 4.37.:

Table 4.37.

List of Quantifiers/Determiners acting as boosters in NNW corpus.

1.	Consistency	6.	Impossibility
2.	Demonstration	7.	Key

- 3. Evidence 8. Must
- 4. Fact 9. Necessity
- 5. Icebreaker 10. Proof

Interestingly, the qualitative findings proved that NNWs used noun boosters more than NWs, if the case is lexical variety. Also, it was seen that noun boosters are used through *-that clause phrases*. Below you see the examples collected in the NNW corpus.

(249) ... formal in-service training is a <u>must</u> for...

(250) It is an *icebreaker* of faulty pronunciation.

(251) These studies have provided compelling evidence.

CHAPTER V

DISCUSSIONS & CONCLUSIONS

5.1. Introduction

Basically, this study aimed to explore the differences and similarities between native (Anglophonic) and non-native (Turkish) writers of English from three scholarly vital components, which are lexical collocations, lexical hedges, and lexical boosters. Through comparison and contrast, it is expected to provide a deeper insight into understanding how and to what extent native and non-native writers use the three lexical components. The present study also sought to create lists of lexical collocations, hedges, and boosters for non-native writers of English. Seen in this light, the present chapter provides the broad thrust of the arguments that this study investigated. To able to navigate through the details easily, the chapter was broken down into chunks with further sub-headings. This chapter is of utmost importance for a reliable conclusion because this study needs to be fleshed out with previous studies that corroborate or contradict the findings acquired in the present dissertation.

5.2. Discussions of Lexical Collocations

A.1. Both overall and separately, to what extent do NWs and NNWs use lexical collocations in their RAs?

The present study evidenced that Anglophonic writers, who were named as NWs throughout the dissertation, were marginally ahead of non-native writers in overall degree which is a conclusion in line with Sung's (2003) dissertation. In order to provide detailed information for each sub-category, a similar finding was gained; in all categories but *noun+verb*, Anglophonic writers outperformed Turkish writers in terms of collocation frequency. Interestingly, Turkish writers had a meaningfully higher frequency than Anglophonic writers only in this category. Typical instances of *noun+verb* include: "Table shows, the results indicate, the study reveals etc." Alsulayyi (2015) attributed the reason of collocation infrequency in non-native productions to the hardness of collocations and lack of English proficiency. In tune with Alsulayyi, Fan

(2009) accused non-native writers' inadequacy of grammar and lexis competence. The conclusions that Alsulayyi and Fan drew were not surprising because a strong positive correlation between collocation competence and L2 proficiency had been formerly claimed by Quiang (2002). Nevertheless, when looked from a broader view, the reason may not be directly linked with the lack of English proficiency because qualitative analyses do not prove a noteworthy incompetence in non-native writers' English proficiency; in contrast, it demonstrates that rather sophisticated grammar structures are evident in droves in their sample data. This proof contradicts those who attributed the matter of using fewer collocations to incompetent English proficiency. One of the possible reasons is that they studied with ESL students whose English proficiency is expectedly much lower than writers who scientifically write in ELT. More specifically, the data in this study were not collected from ESL students but from ELT writers whose education backgrounds are much equipped.

Durrant and Schmitt's study (2010) conducted on Turkish writers of English indicated that any shortfall in non-native writers' collocational knowledge is mainly due to inadequate input regarding associations between words. This explanation with reference to the proficiency of collocational knowledge appears to be partly sensible. In a similar vein, Martelli (2006) constructed a base regarding why non-native writers use collocations incorrectly and why they generally have written texts with lack of some collocation types. According to Martelli, the reason pertains to the familiarity with collocations. In other words, a non-native writer uses collocations only s/he has encountered them beforehand. Otherwise, s/he is sure to construct miscollocations. As it was in Martelli's conclusion, Kennedy (2003) strongly supports that collocation familiarity must be increased either explicitly or implicitly through readings because consciously or unconsciously meeting a collocation in a source written by a native writer of English should possibly raise the prospect of using the same collocation by a non-native writers, which is the most powerful strength of the present study because a list of collocations by Anglophonic writers was created (see appendix. 1). Therefore, one possible reason about that why non-native writers underuse collocations in their academic writings in both overall and sub-categories when compared to Anglophonic writers may be due to their unfamiliarity with collocations.

Turning back to categorical comparison, the only category that non-native writers had superiority over Anglophonic is *noun+verb*. The question of why all categories robustly displayed NW superiority while the category of *noun+verb* did not can be answered by focussing deeper into the case of writing styles. In other words, a possible reason regarding categorical difference may stem from the degree of difficulty. The literature indicates that some lexical word combinations show variance depending on writer type. While some writers find some word combinations difficult, others may not; and this is a crucial situation in determining whether to use a collocation or not. In that sense, Li (2005) found that EFL / ESL writers experienced difficulty in constructing *adjective+preposition* collocations, which ended up with less collocations by the writer in that category; meanwhile categories like verb+to infinitive and verb+object were easier, and thus, they were more frequently used. That idea was corroborated by Källkvist (1998) who claimed that high-utility (most frequently used) verbs are easier to make a collocation by Swedish learners of English. Another reason regarding noun+verb non-native writers' superiority may be explained with L1 interference. As it is in all language components, L1 influence may greatly affect writers' collocational competence as stated by Sadeghi (2009). Although sentence structure in English and Turkish is different, noun+verb syntactical orders seem in agreement with Turkish. The Turkish translations of English sentences such as the Table shows, the results indicate, the study reveals etc. can be directly translated into Turkish sentence without making and subject-verb-object change.

If we address to Anglophonic writers' superiority, lack of awareness on the importance of collocations for academic writing may be one of the primary reasons for non-native writers. The study that was conducted by Kim (2009) on non-native writers (Korean) of English revealed that they were not aware of the importance of collocations in scholarly-based writing. Also, this point was emphasized by Sonbul and Schmitt (2013), and even the issue of collocational awareness was taken further by proposing explicit and implicit instructions on how to acquire collocations.

A.2. What are the most frequent pivot words in lexical collocations that NWs and NNWs use in their RAs?

It is expected that the answer to this question may substantially further our understanding and insight of the nature of collocations. The qualitative findings provided both similarities and differences between Anglophonic and Turkish writers. Yet, what a similarity or difference means from the perspective of linguistic? For a better insight, the Table 4.20. already provided the most frequent pivot words by Anglophonic and Turkish writers. Concisely, the results revealed great similarities between Anglophonic and Turkish writers. In the category of *verb+noun*, four out of five most frequent pivot words tallied with one another, which are *provide, make, gain,* and *give*. The fifth word for Anglophonic writers was *attention* while it was *role* for Turkish writers. The interesting finding is that although the word *role* was not a frequently used pivot word for Anglophonic writers, it was majorly used by NNWs. The second category that lexically united Anglophonic and Turkish writers at a broad resemblance was *verb+adj./adv*. In this category, the word *remain* for Anglophonic writers were their distinctive choices while four words were common: *become, seem, make,* and *feel*.

Not all categories of lexical collocations bore such widely common similarities in terms of the most frequent pivot words. For example, the categories of *noun+noun* and *adverb+verb* had only two common words; *lack* and *learning* for *noun+noun*, and *use* and *widely* for *adverb+verb*. To put differently, both Anglophonic and Turkish writers used mostly the words *lack* and *learning* in *noun+noun* category, and *use* and *widely* in *adverb+verb* category.

On the top of answering the research question A.2., what is to be noted down meticulously is the issue of systematic association between vocabulary choice and individual differences. The qualitative analyses showed that Turkish writers used common words, and thus, they showed similarity while the word choice for Anglophonic writers also bore resemblance in their own sample data. "Whether similar word use by Anglophonic and Turkish writers is no better than chance" seems a question locked in a stab. In this connection, Yarkoni (2010) aimed to show that the similarity in word use has a strong bond with personality. Shortly, apart from moderate similarities between Anglophonic and Turkish writers from the aspect of word use,

Anglophonic and Turkish writers used words only distinctive to their group. For instance, while Turkish writers used the words *effective* and *effectively* more often, Anglophonic writers did not show such an inclination. This is a ramification that was not expected or addressed in the present study.

A.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of lexical collocation frequency and collocation diversity?

The quantitative results apparently proved a meaningfully significant difference between Anglophonic and Turkish writers in terms of all collocation sub-categories as well as in total. As aforementioned, Anglophonic writers used strikingly more collocations than their Turkish equivalents but for *noun+verb*, which is the only category where Turkish writers used more collocations comparatively. The test results evidenced that the frequency differences are statistically significant, and thus must be taken seriously.

That non-native language is in deficiency of collocations is not an unwarranted assert thanks to the present study. The quantitative findings demonstrated that Turkish writers, more often than not, include high frequency collocations; i.e., strong collocations while Anglophonic writers have a large lexicon allowing them to collocate easily even with infrequent words. Therefore, the present study evidenced the claims made by Durrant and Schmitt (2009) that native writers of English tend to use more low-frequency word combinations than non-native writers of English. Seen in this light, it seems that Turkish writers avoid using weak collocations assumingly with a fear of seeming odd or incompetent. In this sense, Durrant and Schmitt (2009) confirmed lack of formulaic expressions and collocation use by non-native speakers of English, and attributed the matter to the failure of using less frequent collocations and relying heavily on frequent collocations. Therefore, the objective of this study is not only to investigate whether Anglophonic and Turkish writers used more collocations, but also to find a practicable solution with respect to what should be done immediately to be able to get around the problem. It is stated by myriad studies that the richer the learner has a collocation lexicon, the higher precision, accuracy, coherence and authenticity is sure in his/her speech (Martyńska, 2004). Instead of simply detecting similarities and differences between Anglophonic and Turkish writers, the present study furthers understanding of that why collocations are salient for academic writing and what should be done in order to get collocation knowledge which is seen as a show-off to be nativelike.

Another crucial outcome of the present study pertains to lexical diversity. The results approved a statistically significant difference in all categories but for *noun+noun*. There is not a statistically meaningful difference between Anglophonic and Turkish writers in terms of *noun+noun* collocations, though Turkish writers were those with higher number of *noun+noun* collocation. The qualitative findings are evident that while Turkish writers generally clustered on similar words, Anglophonic writers had a much wider use of lexicon. That Anglophonic writers have a larger lexicon when compared to Turkish writers is not a surprising result at all. This provides a greater leeway to Anglophonic writers in expressing their claims or advocacies, which is without doubt a privilege in academic writing. Conventional writing style of Turkish writers may also be a non-negligible reason to determine why they have lexically narrow academic texts. Turkish writers usually avoid using an elaborative language with a fear of seeming convoluted. Therefore, they use simply high-level (frequent) words, which occasions repeated vocabularies and lexical infertility. Durrant and Schmitt (2009) mentioned that this is a situation revealing the degree of conservatism in a written production; i.e., writers appear to over-rely on structures or forms which are common in the language. However, lexical diversity has been regarded as an illuminative predictor of writers' language competence and an essential indicator of their writing quality (Guoxing, 2009). Accordingly, it is understood from the linguistic literature that writers award great importance to their lexical diversity which is a robust indicator for sounding native-like. This issue had previously been investigated heavily in psycholinguistics and applied linguistics (Dewaele & Pavlenko, 2003).

This study has found a relation between collocation and lexical diversity. That statistical results put forward statistically marginal differences between Anglophonic writers and Turkish writers in terms of collocation number and collocation lexical diversity is not absolutely a randomly obtained result. On the contrary, a few studies establish a link between collocation knowledge and lexical diversity (cf. Laufer, 2003; Nizonkiza, 2011), and further, they attach a link with effective academic writings (e.g. Hyland, 2008; Durrant, 2009).

Qualitative findings showed that Turkish writers generally construct their sentences in bottom-up direction (creating sentence word by word) instead of using fixed statements, ready-made chunks, or other formulaic expressions such as collocations. Even in phraseological sentence constructions, high-frequency collocations become the primary use. Lorenz (1999) stressed that "attestedly viable, recurrent collocations (p. 181)" wield voluminous influence on non-native writers. Although it would be too assertive to relate this tendency and avoidance to a certain reason, insufficient awareness may be excused for. That being the case, this study asserts that authentic native-like phraseological competence can be achieved only through drawing attention to the significance of collocations in academic productions, which is one of the foremost purposes in the present study.

5.3. Discussions of Lexical Hedges and Boosters

B.1. Both overall and separately, to what extent do NWs and NNWs use lexical hedges in their RAs?

C.1. Both overall and separately, to what extent do NWs and NNWs use lexical boosters in their RAs?

The results demonstrated that Anglophonic writers used more hedges and boosters than Turkish writers overall although the range was comparatively smaller in boosters. The findings showed similarity regarding the categorical differences. In all hedging and boosting categories, Anglophonic writers were ahead in frequency. Concisely, no superiority was discovered either in overall frequency or separate categorical frequencies in terms of using hedging and boosting devices in Turkish writers' sample data.

In spite of the importance of hedges and boosters for academic writing, their low frequency in Turkish writers' academic texts may stem from a number of reasons. In a study aimed to find out non-native writers' hedging tendencies in research articles, Hyland (1996) concluded that non-native writers of English find using hedges "extremely troublesome" (p. 278). However, qualitative analyses showed that nonnative writers used a great many of hedging devices, which is an evidence that difficulties in using hedging may not be the actual matter, if so, the total figures in hedge numbers in non-native writer data would be much lower. On the other hand, Turkish writers were those from the field of ELT, which eliminates any reasoning with respect to lack of English proficiency.

The other possible reason is about lack of awareness regarding the importance of hedging and boosting. In non-Anglo-sphere academe, rhetorical persuasion does not connote hedging necessarily, and hedging the statements or claims is not an obvious consideration for many non-native writers (Hinkel, 2004) when compared to native writers. However, a few studies apparently indicated that writers with discourse knowledge of vocabularies are expected to compose more efficient and persuasive texts than those who lack discoursal use competence of vocabularies (e.g. Benton, Corkill, Sharp, & Khramtsova, 1995; DeGroff, 1987; Langer, 1984; McCutchen, 1986; Olinghouse & Graham, 2009). Shortly the primary reason appears to be a matter of awareness.

Akbaş (2012) found a consistent result with the present study. According to his results, Anglophonic writers have a higher average of hedges and boosters while writing dissertation abstracts when compared to Turkish writers. By changing his data source, the author (Akbas, 2014) compared Anglophonic writers' and Turkish writers' discussion sections but this time he found that Turkish writers have a higher mean frequency of hedges and boosted sentences than Anglophonic writers, which bellied with the present study. The reason for differentiation could be explained by taking the source of data into consideration. He found two contrastive differences when the data source altered; from abstract to discussion, which means that writers' authorial stances may show differences across sections of an academic writing. Keeping that in mind, in her cross-sectional study, Vassileva (2001) compared articles of Bulgarian English and Native English. She found frequency differences across introduction, discussion, and conclusion in terms of using hedging and boosting devices. Unlike Vassileva's research, the present study did not make a distinction between sections or investigate only a section of a whole academic text, but analyzed an academic article fully. That is why, the present results could show variance with other studies that dissected articles. Studies that investigated the whole article without dividing the sections had similar results with the present study. For example, two studies that aimed to detect authorial commitment (Yağız & Demir, 2015b) and detachment (Yağız & Demir, 2014), compared Turkish writers and Anglophonic writers through a small scale data, and revealed findings in

tune with the present study. In a similar vein, in contrast to the findings of the present study, Uysal (2014) found that Turkish writers of English used more hedges than Anglophonic writers in conference abstracts. What gave rise to this contrastive result may be because of conventional writing styles of conference abstract. In a conference abstract the writer may assuredly use a tentative language because the full study has not been conducted yet.

To boil down the answer, Turkish writers of English use less lexical hedges and intensifiers when compared to their Anglophonic counterparts. The reason regarding the differences seemingly arouses from lack of interest or awareness toward the powerful effect of hedges and boosters on readers in academic discourse. That is why the present study underscored the importance of rhetorical devices for scholarly-based discussions, and accordingly suggested implications concerning necessary, meticulous, and balanced use of commitment and detachment devices for a persuasive authorial stance.

B.2. What is the most frequent lexical hedge category that NWs and NNWs use in their RAs? Are there any differences between the two groups in terms of lexical diversity of hedges?

C.2. What is the most frequent lexical booster category that NWs and NNWs use in their RAs? Are there any differences between the two groups in terms of lexical diversity of boosters?

The quantitative findings proved that the most frequently used subcategory of hedging devices is *verbs* for Anglophonic writers while it is *modals* for Turkish writers. These findings are consistent with Akbas' study (2014) which investigated the most frequently used hedges. He found that epistemic verb "can" is the most frequently used hedging device in academic texts written in English by Turkish writers, which is the exact case in the present study (see Figure 4.8.). On the other hand, Anglophonic writers used *may* in substantial numbers. This difference may prompt a new linguistic perspective; on whether conventional writing styles of a nation may substantially incline to use some structures or vocabularies over others. In other parlance, qualitative analyses determined that the vast majority of Anglophonic writers and Turkish writers preferred to use different words unique to their group, which appears to be a case that

cannot be seen as not better than a chance. Interestingly enough, some conscious or unconscious parameters should be the determinants for writers in deciding their words.

Turning to lexical diversity, unsurprisingly it was substantiated that Anglophonic writers had robustly higher hedge and booster diversities than Turkish writers. Besides, statistical analyses corroborated that the difference between Anglophonic writers and Turkish writers is statistically significant at all sub-categories as well as in total. In other words, Anglophonic writers produced more lexical hedges at all sub- categories in terms of lexical variety, which expectedly means that Anglophonic writers have a larger lexical repertoire. The situation is slightly different in booster variety. Quantitative analyses yielded no statistically significant difference in only one category of boosters: *modal*. Although there seems a great paucity of studies gauging native and non-native speakers' lexical richness in academic discourse, non-native writers' lower lexical variety is not a new occasion. The relationship between lexical richness and oral performance (Lu, 2012); lexical richness and writing proficiency (Azodi, 2014); lexical richness and reading performance (Mehdi & Salahshoor, 2014), and many other related studies have been carried out. However, an outright investigation regarding lexical diversity in using hedges and booster from the aspect of writers' nativeness seems almost non-existent in the literature.

B.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of using lexical hedges?

C.3. Both overall and separately, is there any statistically significant difference between NWs and NNWs in terms of using lexical boosters?

Appertaining to hedges, the categories modal. verb, adverb, determiner/quantifier, and noun indicated a statistically significant difference while the category of *adjective* did not. Besides, overall, no statistically significant difference was detected. The study is in tune with Hamamcı's results (2007) who found that there is not a statistically significant difference between Turkish and Native writers of English. However, the present study bellied with his results when total hedging device frequency was the case. He found that Turkish and Anglophonic writers used almost similar number of hedging devices while the present study showed that there is a large frequency difference even if the difference is not statistically significant. The

contradictive result may stem in that he only used PC-based software programme "WordSmith" and did not check whether the hedging devices that the programme found were in the function of hedging or not. A small scale study (Ozdemir & Longo, 2014) that compared Turkish students' and American students' thesis abstracts also demonstrated statistically non-significant result in terms of total hedge usage.

In terms of boosters, the results did not prove any statistically meaningful difference between Anglophonic and Turkish writers except for the category of adverbs. In other words, the only statistically significant difference was observed in the category of adverbs. The results can be construed that Anglophonic and Turkish writers statistically have a similar inclination towards intensifier use in academic writing. A similar study (Kim & Suh, 2014) measured boosting devices in two corpora, the first of which is Korean speakers of English and the latter is native speakers of English. They found a similar result in that there is no statistically significant difference between two corpora in the category of adverbials. However, not all the results were in agreement with the results of the present study, one of which was Akbas' (2012) results. As aforementioned, he only looked at dissertation abstract, and it is known that there may be discourse differences in cross-sectional studies. Therefore, only examining the abstract does not mean that the results can be generalized to all other sections of data.

5.4. Pedagogical Implications

5.4.1. Suggestions for collocations

A.4. What do the literature and research findings suggest about the use of lexical collocation in academic discourse?

The literature clearly establishes a strong link of collocation knowledge with divergent language skills such as lexical diversity (Laufer, 2003); lexical competence (Nizonkiza, 2011); academic writing proficiency (Hyland , 2008; Durrant, 2009); speaking proficiency (Shin & Nation, 2007); reading proficiency (Tekingül, 2012); and grammar and vocabulary teaching (Kennedy, 1990). It is understood that collocation had a wide sphere of effect, though the present study focussed on the relationship of collocation competence with academic writing.

The direct relation between collocation proficiency and nativeness is almost certain according to the linguistic literature stated in the second Chapter. Seen in this light, it can assuredly be stated that knowledge of collocation brings invaluable benefits particularly to non-native writers who desperately aspire for nativeness in target language. Additionally, we know that "errors in the use of word collocations surely add to the foreign flavour in the learner's speech and writing and along with his faulty pronunciation they are the strongest markers of 'an accent (Korosadowicz-Struzynska, 1980, p. 115)." That is why a miscollocation may lead an academic paper to end up with misery in academe.

Even if the acquisition of collocation competence is seen as an intuitive process occurring in mind without any special effort to restore memory on purpose, it was proven that conscious acquisition of collocation knowledge is possible even at the very late stages of life (cf. Approach, 1993; Wray, 2002). Below, you may find some pedagogical implications for the acquisition of collocations which gained ascendance in academia in recent years:

- 1) Lewis (1997) suggested collocation exercises that may contribute to increase learners' awareness of collocations. Particularly two exercises may help substantially: matching and de-lexicalised verbs exercises. Matching exercises, the source of which was borrowed from native sentences, could be of utmost benefit. For de-lexicalised verbs exercises, a list of verbs can be noted down (take, make, have, do etc), and their collocate words can be written (a laugh, a smoke, an experience, a trip etc.).
- 2) Ready-made collocation lists will be of paramount importance for those who desire for expanding productive collocation skills. This study seems to be the first attempt to construct a list of collocations that native writers of English included in their academic texts. The list presented in the appendix one kindly submitted to the service for novice writers or those who are already in the need of enhancing their native-fluency.
- 3) To avoid producing inappropriate or odd collocations, some exercises should be done to improve collocational behaviour of synonyms; that is, which synonym associates well with a collocate word. For example two synonyms verbs *join* and *attend* are used with different collocates; *join a club, join the army, attend a class, attend a meeting etc.* Therefore, what should be kept in mind is that even

exact synonyms have different collocate words, and they cannot be used interchangeably (Liu, 2000).

- 4) Translation is also an effective practice for the acquisition of collocations. However, the point that should be cared painstakingly is to do translations as "collocation to collocation" (Newmark, 1988, p. 69) or "chunk-for-chunk" (Lewis, 1997, p.62) instead of word-for-word translation.
- 5) Using a collocation dictionary may help improve collocation competence subconsciously. Almost all prominent publishers have collocation dictionaries at different proficiency levels. Also, online-collocation dictionaries may be helpful by way of calling the required information speedier than conventional hardcopy dictionaries.
- 6) Some on-going computational approaches that are able to detect collocation errors can be of paramount importance for particularly novice-writers. Those who are in such a need should stay tuned in up-to-date literature (cf. Futagi, Deane, Chodorow, & Tetreault, 2008; Chang, Chang, Chen, & Liou, 2008).
- 7) Collocation attainment can be supported via digital library works (Wu, Franken, & Witten, 2010). A digital library has distinctive advantages when compared to other conventional initiatives. Firstly, it provides a great amount of authentic sources to access free of charge. Secondly, they are fast and accessible all over the world with no or partial restriction. The studies in the linguistic literature proved that collocations are intuitive, yet they can be learned sizeably through extensive reading (Webb, Newton, & Chang, 2013). One thing to mind is that reading types such as skimming or scanning are likely to cause overlooking word combinations, therefore critical reading is required not to miss good collocation epitomes.
- 8) It is indicated that any failure in non-native writers' competence of collocation is due to inadequate input (Durrant & Schmitt, 2010). Seen in this light, datadriven studies and web-sites (e.g. BNC or COCA) may greatly help non-native writers with endless authentic examples and well-ordered data submission features. Data-driven learning is claimed to be robustly effective in acquisition of native-like collocation knowledge (Koosha & Jafarpour, 2006). When

compared to digital libraries, corpora websites are easier to use and get what you look for. Furthermore, data-driven learning works can be accessed easily on various databases.

- 9) One challenge for non-native writer of English is L1 interference. In order not to be seen foreign or odd to the audience, the writer should check his/her newly used word combinations. What is understood from the literature is that it is highly possible the writer may associate words similar in his/her native language. Therefore, to get rid of L1 negative transfer, the newly constructed word combinations should be checked through collocation dictionaries or authentic samples in corpora whether they are in agreement with native-use.
- 10) Different from conventional suggestions, Cowie and Howarth (1999) considered that the collocational competence is not likely to develop through massive exposure to or repeated use of collocations. For them, familiarization with collocations or possible collocational competence is supposed to come about through writers' gradual growing perception of idiosyncratic properties.

5.4.2. Suggestions for hedging and boosting

B.4. What do the literature and research findings suggest about the use of lexical hedges in academic discourse?

C.4. What do the literature and research findings suggest about the use of lexical boosters in academic discourse?

Referring to the literature review mentioned in the present study, we know that discourse devices are lexical conventions that embellish academic texts, and the ability to use discourse devices are commensurate with language proficiency. Among all discourse devices, particularly the two come into prominence: hedges and booster.

Hedging is of paramount importance in scientific papers due to the fact that it both acts as a face-saving strategy, and represents the certainty of the scientists' knowledge over the claim (Meyer, 1997). In addition, hedging devices, in English for Academic Purposes (EAP), have been identified as a basic unit of communication in research articles written in English (for example Adams-Smith, 1984; Hyland, 1994; Hyland, 1998; Hinkel, 2004). Hedging is reported to be critical for academic writings (Hyland, 1998b), and the question with respect to the criticality of hedging devices for academic texts was investigated by researchers who are in the vanguard in the field. The answer for Hyland (1998b) was the power of "speculative means"; i.e. to leave door ajar to the issues ending with weakness and indecision so that others will have the chance of empowering the issues which cast doubt on full precision because a complete precision of scientific statements cannot be invariably possible (Grabe & Kaplan, 1997). Besides, it is claimed that readers who were exposed to a written document including hedges developed more positive attitudes than those exposed to texts containing less hedges (cf. Crismore & Vande Kopple, 1997). There appears to be no doubt about the significance of hedging in academic text. In spite of that, Hinkel (2004) reports that non-native writers are not as concerned as native writers in employing hedging devices in their papers. The suggestions under this subheading aimed to gather attention on the importance of hedging devices for a better academic writing.

In addition, it is understood from the literature that non-native writers usually avoid being assertive in their scientific texts, which leads to invisibility of authorial stance over the claims made. The shadowy position of a writer in a scientific text may be deemed as a sign of writer's indeterminacy over the discussed issue, and thus, the lowering credibility may prompt lack of confidence or doubt in readers. This inescapable conclusion is, out of doubt, undesirable by the writer whose primary aim is to persuade the readers on his/her claim. Below you may find a few suggestions on how and why to use hedges and boosters in scholarly writing:

1) What must be kept carefully in mind at the very outset is the necessity of equilibrium between overuse and underuse of boosters in academic writings. Whereas underuse of boosters in a scientific text may cause some credibility problems, too many of them, particularly on *high level claims* may lead to much more trouble for the writer. To speak profoundly, it is a truth that boosters in a text represent for the writer's self-confidence with respect to the plausibility of his/her statements (Holmes, 1982); however, over self-confidence does not raise the prospect of credibility; to the contrary, it creates a suspicion in readers' minds about factuality and trueness of the claim made.

- 2) As it was with boosters, the correct balanced use of hedging devices throughout the writing is invariably a must for all kinds of academic writers. Beyond the benefits of hedging to the writers, what is mainstream among readers is that excessive use of hedging devices in a text may create an adverse effect on the credibility of the claim, hence, on the writer (Sanjaya, 2013).
- 3) The hedging modals 'could' or 'can', which are the most frequently occurring types of negative mitigation strategies, can be used together (Yeşilbursa, 2011). When the speaker does not want to take full responsibility for the truth of his/her utterances (Brown & Levinson, 1987), he/she can employ hedging modifiers 'can' to suggest a hypothetical possibility, and 'could' to make the suggestion even more tentative (Leech, 2004).
- 4) "Native English speakers can be assumed to have drawn on their native intuition about the use of hedging" (Burrough-Boenisch, 2004, p.35), but non-native English speakers are not as much lucky as native ones, therefore they definitely need to spend a large amount of effort and time in learning the precise way of strategically rejecting the claims belonging to others, how to use hedging devices appropriately, and how to present a new allegation in a persuasive way so that members of the scientific community may accede to the claim (Yang, 2013).
- 5) Since they may over-rely on their L1 rhetorical style, quite a few L2 writers of English incline to construct academic texts that are somewhat inconsistent with the norms and expectations of the target discourse community (Lafuente-Millan, 2014). It is possible to have such an intercultural effect of L1 rhetorical style on L2 rhetoric, which is called "hybridization phenomenon" --a mixing of local and Anglophone rhetorical practice-- firstly introduced by Perez-Llantada (2010). The writer should fully be aware of that hidden influence in order not to constitute blurring rhetorical practices in academic texts.

- 6) The present study compiled a list of hedges (appendix 2.) and boosters (appendix 3.) with a purpose of presenting a well-ordered word list that may be used widely in non-native writers' academic productions. The ready-made lists of hedging and boosting devices may be of great importance in order to facilitate writers' effort to find the correct rhetorical word without leaving a stark mark.
- 7) The writers should be certain about whether they present observed facts or make interpretation, which is a situation that wholly determines the degree of authorial involvement. If it is the matter of presenting the observed facts, some weight through intensifiers listed in *appendix 3* may be delivered in order to create a moderate commitment over the audience, which is expected to call the persuasion power into being.
- 8) The genre, discipline, text type, and the issue may require different authorial involvement. For instance, while some fields of academy necessarily call for a strong authorial commitment, the same authorial commitment or certainty in other disciplines may be deadly for the writer, who possibly will receive disclaimer responses, counter/response letters, harsh criticism etc. Specifically, a very tentative language with mitigating statements, lots of epistemic modals, and ambiguous statements in hard sciences may not be a much acceptable situation from the aspect of claim reliability (cf. Vázquez & Giner, 2008). In a similar vein, an academic text crammed with intensifiers and amplifiers on an abstract issue or in pure science will not get any kudos from the readers because the concept of truth is rather tangible in soft science (For some exceptions see Peacock, 2006; Behnam & Mirzapour, 2012; Khedri, Ebrahimi, & Heng, 2013). Briefly, your rhetorical style cannot completely be independent from the genre, discipline, text type, and the issue.
- **9)** Apparently, the matter of culture is also a significant factor in determining a writer's rhetorical style. In this connection, Yang (2013) drew a conclusion that Chinese-authored academic texts tend to be more precise with full of participation to their statements. However, the same issue committed by a writer from a different culture background may end itself up with a production highly tentative (cf. Uysal, 2012). Therefore, the culture should not be a determinant

factor of rhetoric in scholarly writing; on the contrary, it should be intuitively known that academe has its own unique and distinctive style of discourse, which is a mutual equilibrium between being assertive and tentative. Therefore, the present study suggests that each writer should adopt stylistic and rhetoric appropriateness by getting rid of his/her own unobtrusive cultural impacts.

- 10) Indicated in the second Chapter, plenty of cross-sectional studies which investigated sectional differences in terms of including metadiscourse devices proved that there are significant differences among sections in scientific articles. This may add contribution to a scientific writing to expand its sphere of influence. A tentative language including diminutives, epistemic modals, or evidential verbs may evoke a curiosity in audience to read the whole text. Therefore, a certain amount of hedging can be more tolerable in the sections of abstract and introduction. However, the same degree of uncertainty within discussion and conclusion may cause a counter-effect --feeling of disappointment in audience because they may have an expectation of finding a precise answer with a relatively more emphatic language to their feeling of curiosity evoked in the introduction. Shortly, the sectional use of commitment and detachment in an academic writing should not be stable throughout all sections, but should show variance in amount (cf. Vassileva, 2001: Hamamcı, 2007: Salek, 2014: Yağız & Demir, 2014: Biook & Mohseni, 2014).
- **11**) The present study suggested some lexical hedges and boosters in the appendices two and three. On the top of hedging and boosting at lexical level, phraseological structures such as embedded clauses, if clauses, or clauses with dummy subject *it* may be helpful.
- 12) The dictionary that a writer refers to should give profound detail with authentic usage of words, particularly for diminutives and discourse understatements which seem with no clear-cut boundary of usage for non-native writers.

5.5. Strengths and Further Research

The present study specifically investigated three language components -collocations, hedges, and boosters-- from lexical aspects. However, apart from lexical attributes, these language components have other subcategories crucial for academic writing. For example, Hill (1999) divided collocations into four as unique, strong, medium-strength, and weak. Besides, grammatical collocations also merit to be investigated, which take up a substantial place in academic writing. Similarly, in addition to lexical hedges and boosters, a phraseological investigation of hedges and boosters including *if clauses, embedded clauses*, and *grammatical structures* would be of utmost importance in order to reveal phrase-based differences between Anglophonic and Turkish writers. In short, future research could additionally contribute to the present findings by using a different taxonomy instead of lexical categorization.

The corpus for the present study consisted of a great amount of article compilation, but all from only one discipline: ELT. However, we know that rhetorical devices change depending on the genre they have been used. Therefore, surely, it would be interesting and helpful to retain information on how hedges and boosters are used in other disciplines. Similarly, the collocations, at a large scale, show similarities in usage, which shows that they are not independent from the effect of the discipline. It is almost certain that different genre investigations would provide much more different lexical collocations than those categorized in the present study if the data were composed of a discipline other than ELT.

Another suggestion pertains to the investigation of different discourses other than academic texts. The literature proves that the vast majority of the studies with respect to collocations, hedges, and boosters constructed their corpus from academic writings or student writing practices. However, it may be useful and informative to know about how and to what extent other sources --in which rhetorical devices are indispensible such as media, politics, etc.-- use metadiscourse features.

The present study did not make a distinction in gender while building up its corpus. In fact, gender seems an important factor in determining the use of discourses, therefore it would be somewhat interesting to discover whether there are any differences in utilizing hedges existed between female and male authors; and whether it can be assuredly claimed that females possibly use more indirect, tentative, and vague language when compared to males or vice-versa.

Another caveat is the probable influence of culture over academic writing. The present study provided some inspiration regarding the relation between metadiscourse and culture, which points to a substantial change depending on culture. Despite the fact that some studies made much of this issue, (e.g. Leyla & Atai, 2008, Yang, 2013, Uysal, 2014), they largely had a data composed of academic writing. However, the issue of culture is not small enough to fit into academic writing; therefore a better insight concerning culture specific details may be investigated through data brought together by way of triangulation.

Some allegations regarding the visibility of metadiscourse devices by audience were questioned (cf. Hyland, 2000b). Whether metadiscouse devices like hedging and boosting have borne any robust significance to the readers is a question waiting to be answered with carefully designed qualitative studies. Although a few researchers (Crismore & Vande Kopple, 1997, 1997b) attempted for a valid answer to whether metadicourse devices were de facto cared or just ignored by readers, cognitive and affective influence of metadiscourse devices on readers in academic reading remain to be investigated.

As last but not the least, the present mixed-method study provided three lists of lexical collocations, hedges, and boosters particularly useful for non-native writers. Further research may enrich the lists by investigating particularly the disciplines other than ELT.

5.6. Conclusion

The present study primarily aimed to reveal the differences and similarities between Anglophonic writers and Turkish writers of English in terms of using lexical collocations, lexical hedges, and lexical boosters. The findings evidenced that Anglophonic writers used much more collocations in their academic texts, and the differences at sub-categorical levels were largely statistically significant. It seems that some odd word combinations in non-native writer sample data detract academic writing from being native-like. Therefore, the present study strongly suggests non-native writers to be more aware of native word combinations since the literature establishes a certain link between collocation competence and native-fluency. In this connection, a crucial list (appendix 1) compiled from Anglophonic writer corpus was constructed to be a reference point in non-native writers' prospective research.

In addition, the results proved Anglophonic writers' numerical superiority over Turkish writers in terms of two rhetorical devices: hedging and boosting. The less use of hedging and boosting appears to be in connection to insufficient awareness regarding the paramount importance. In that sense, studies aiming to evoke awareness to the importance of rhetorical devices in academic texts are of paramount significance. In a similar vein, the present study aimed at increasing the visibility of rhetorical devices in particular for non-native writers. Accordingly, lists of hedges and boosters compiled from varied dictionaries were provided in the appendices two and three. It is highly expected that non-native writers could get advantage of the lists in the course of composing a scientific text.

Another significant finding which may be a reference point for further research is that Anglophonic writers are prone to writing their academic texts with a higher number of vocabularies when compared to Turkish writers. The results evidenced a statistically significant difference between Anglophonic and Turkish writers in terms of lexical variety.

The final note-worthy events in the present study are the suggestions that were mooted for further research and the pedagogical implications about how to use collocations, hedges, and boosters in academic writings. As they are in other studies, the pedagogical implications are expected to gain favour for particularly non-native writer.

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Appendix 1.		
Collocations	List (Page	1/25)

- 1. Achieve aims
- 2. Achieve goal
- 3. Achieve purpose
- 4. Add interest
- 5. Add weight
- 6. Adopt a methodology
- 7. Adopt a stance
- 8. Affect performance
- 9. Allocate resource
- 10. Allow acquisition
- 11. Appeal for assistance
- 12. Ask question
- 13. Ask clarification
- 14. Assure confidentiality
- 15. Attend class
- 16. Attend conference
- 17. Attend school
- 18. Attract attention
- 19. Avoid confusion
- 20. Avoid loss
- 21. Avoid overuse
- 22. Avoid problem
- 23. Become a focus
- 24. Become (active) agents
- 25. Become commonplace
- 26. Become example
- 27. Boost confidence
- 28. Borrow technique
- 29. Bridge the gap
- 30. Build a connection
- 31. Build confidence

- 32. Build corpus
- 33. Build up understanding

VERB + NOUN

- 34. Call attention
- 35. Capture insight
- 36. Capture relationship
- 37. Challenge views
- 38. Change roles
- 39. Claim authority
- 40. Clarify uncertainties
- 41. Collect information
- 42. Complete task
- 43. Complete test
- 44. Compile a corpus (of)
- 45. Compose a response
- 46. Conduct a study
- 47. Conduct an investigation
- 48. Construct corpora
- 49. Convey a message
- 50. Correct error
- 51. Create an image
- 52. Create demand
- 53. Create interest
- 54. Create opportunity
- 55. Create possibility
- 56. Create tension
- 57. Cut off conversation
- 58. Demonstrate a benefit
- 59. Demonstrate a concern
- 60. Demonstrate a desire
- 61. Demonstrate evidence
- 62. Demonstrate variability

- 63. Deserve attention
- 64. Devalue the content
- 65. Develop a persona
- 66. Develop awareness
- 67. Develop idea
- 68. Develop insight
- 69. Develop skill
- 70. Develop strategy
- 71. Display familiarity
- 72. Display similarity
- 73. Draw attention
- 74. Draw a distinction
- 75. Draw conclusion
- 76. Edit message
- 77. Effect a change
- 78. Effect an upheaval
- 79. Enable generalization
- 80. Encourage compliance
- 81. Enter the university
- 82. Ensure consistency
- 83. Ensure safety
- 84. Entail a shift
- 85. Eradicate dissatisfaction
- 86. Espouse ideas
- 87. Establish a link
- 88. Establish authority
- 89. Establish groundwork
- 90. Examine correlation
- 91. Examine problems
- 92. Exchange farewell
- 93. Exchange greetings

95. Exchange information 96. Exhibit a tendency 97. Experience a shift 98. Experience confusion 99. Experience difficulty 100.Exploit benefits 101.Express emotion 102.Express opinion 103.Extend discussion 104.Extract information 105.Face challenge 106.Face difficulty 107.Facilitate acquisition 108.Feel gap 109.Feel guilty 110.Feel need 111.Fill gap 112.Fill out questionnaire 113.Find a benefit 114. Find challenging 115.Find correlation 116. Find opportunity 117.Focus on target 118.Form a basis (for) 119.Foster acquisition 120.Foster learning 121. Furnish information 122.Gain acceptance 123.Gain an overview 124.Gain appreciation

94. Exchange ideas

Appendix 1 continuing (page 2/25)

125.Gain ascendance 126.Gain confidence 127.Gain control 128.Gain flexibility 129.Gain ground 130.Gain insight 131.Gain inspiration 132.Gain perspective 133.Gain popularity 134.Gain power 135.Gain recognition 136.Gain resource 137.Gain support 138.Gain understanding 139.Gauge development 140.Generate understanding 141.Get grade 142. Give access 143. Give attention 144. Give confidence 145.Give credence 146. Give credit 147.Give evidence 148. Give experience 149. Give feedback 150. Give freedom 151. Give indication 152.Give insight 153. Give opportunity 154.Give order 155.Give outline 156. Give permission 157. Give security

158. Give thought 159. Give voice 160.Give weight 161.Outline guideline 162.Have a provenance 163. Have a tendency 164.Have an impact 165.Have confidence 166.Have difficulty 167.Have experience 168.Have limitation 169.Have merit 170. Have opportunity 171. Have trouble 172.Heighten awareness 173.Hold belief 174.Identify changes 175.Identify words 176.Illustrate benefits 177.Improve pronunciation 178.Incentivize collaboration 179. Increase confidence 180.Intensify demand 181.Interpret meaning 182.Invest effort 183.Investigate evidence 184. Justify an evaluation 185.Lack access 186.Lack authenticity 187.Lack confidence 188.Lack competence 189.Lack depth 190.Lead to scepticism

191.Lend credence 192.Lend weight 193.Lessen impact 194.Limit progress 195.Load baggage 196.Make a claim 197.Make a comparison 198.Make a difference 199. Make a distinction 200. Make a decision 201.Make agreement 202.Make an effort 203.Make argument 204. Make attempt 205.Make challenging 206.Make change 207.Make choice 208.Make clear 209.Make comment 210.Make comparison 211.Make connection 212. Make contribution 213.Make correction 214.Make decision 215.Make effort 216.Make error 217.Make gains 218. Make generalisation 219.Make gesture 220.Make introduction 221.Make investigation 222.Make judgements 223. Make mistake

224. Make notes 225.Make observation 226.Make progress 227.Make promise 228.Make provision 229.Make recording 230.Make request 231.Make sense 232.Make suggestion 233. Make transition 234.Meet (certain) criteria 235.Meet desiderate 236.Merit a position 237.Merit attention 238. Miss opportunity 239. Motivate learning 240.Narrow the gap 241.Need attention 242.Need support 243.Negotiate meaning 244. Obscure difference 245.Offer evidence 246.Offer insight 247.Offer opportunity 248.Offer solution 249.Offer suggestion 250.Offer support 251.Offer window 252.Obscure information 253.Open up discussion 254. Open up space 255.Overlook errors 256.Pay attention

Appendix 1 continuing (page 3/25)

257.Pilot an activity 258.Play a part 259.Play role 260.Pose a challenge 261.Pose a problem 262.Pose question 263.Present challenges 264.Present challenges 265.Present opportunities 266.Produce evidence 267.Promote a sense (of) 268.Promote development 269.Promote engagement 270.Promote learning 271.Propose a solution 272.Propose desiderata 273.Provide a basis 274. Provide a foundation 275.Provide a framework 276.Provide a snapshot (of) 277.Provide access 278.Provide advantageous 279.Provide advice 280.Provide an alternative 281.Provide an example 282.Provide an impetus (for) 283.Provide an overview 284.Provide assistant 285.Provide base 286.Provide care 287.Provide complete picture 288.Provide data

289. Provide database 290.Provide details 291.Provide definition 292.Provide description 293.Provide disambiguation 294. Provide discussion 295.Provide evidence 296.Provide example 297.Provide feedback 298.Provide information 299.Provide input 300.Provide insight 301.Provide opportunity 302.Prove problematic 303.Provide reason 304.Provide response 305.Provide service 306.Provide support 307.Provide understanding 308.Provide view 309.Put an effort 310.Raise awareness 311. Raise concern 312. Raise doubts 313.Raise interest 314. Raise possibility 315.Raise question 316.Raise standard 317.Reach a point 318.Reach an agreement 319. Receive attention 320. Receive feedback

321. Receive instruction 322.Receive knowledge 323.Reduce pressure 324.Repair errors 325.Report uncertainty 326.Require attention 327.Require (detailed) research 328.Require substantiation 329.Resolve a problem 330.Reveal difference 331.See a growth 332.See emergence 333.Seek permission 334.Serve (as a) backup 335.Serve (as a) baseline 336.Serve (as a) buffer 337.Serve food 338.Set a foundation 339.Set a model 340.Settle issue 341.Share experience 342.Share ideas 343.Share interest 344.Shed light 345.Shift orientation 346.Show awareness 347.Show benefit 348.Show interest 349.Show evidence 350.Show results 351.Show sensitivity 352.Show tendency

353.Solve problem 354.Stimulate knowledge 355.Stimulate learning 356.Spark controversy 357.Stand a chance 358.Support claim 359. Take a stance 360. Take a test 361. Take a view 362. Take advantage 363. Take notes 364. Take position 365.Take responsibility 366. Take risk 367.Take up life 368.Trigger a change 369.Trigger biases 370.Uncover differences 371. Uncover similarities 372. Understand difficulties 373.Unload baggage 374. Unravel complexities 375.Use knowledge 376. View as burden 377.Welcome a possibility 378. Wield influence 379. Worth consideration 380. Worth (the) effort 381.Worth asking 382.Worth noting 383. Yield a result 384. Yield outcome

Appendix 1 continuing (page 4/25)

VERB + ADVERB / ADJECTIVE

- 1. Add greatly
- 2. Addressed peripherally
- 3. Adopt quickly
- 4. Affect profoundly
- 5. Analyze qualitatively
- 6. Appear crucial
- 7. Appear frequently
- 8. Appear important
- 9. Apply primarily
- 10. Ask directly
- 11. Attend close
- 12. Become adept
- 13. Become apparent
- 14. Become attuned
- 15. Become autonomous
- 16. Become aware
- 17. Become boring
- 18. Become clear
- 19. Become common
- 20. Become complex
- 21. Become concrete
- 22. Become confident
- 23. Become contested
- 24. Become effective
- 25. Become embedded
- 26. Become essential
- 20. Become evident
- 27. Become evident 28. Become familiar
- 20. Decome familia
- 29. Become fluent
- 30. Become fragmented
- 31. Become important

- 32. Become independent
- 33. Become interested
- 34. Become interesting
- 35. Become known
- 36. Become major
- 37. Become marginal
- 38. Become prevalent
- 39. Become proficient
- 40. Become sensitized
- 41. Become sophisticated
- 42. Become specific
- 43. Become tolerant
- 44. Become topical
- 45. Calculate separately
- 46. Carry out intensively
- 47. Change fundamentally
- 48. Change radically
- 49. Check carefully
- 50. Check manually
- 51. Choose evenly
- 52. Clearly illustrate
- 52. Clearly musual
- 53. Close improperly
- 54. Code separately
- 55. Come close
- 56. Comment positively
- 57. Communicate effectively
- 58. Communicate orally
- 59. Communicate successfully
- 60. Compete globally
- 61. Complete accurately
- 62. Compose concisely

- 63. Compose quickly
- 64. Concentrate strictly
- 65. Conduct independently
- 66. Consider briefly
- 67. Considered appropriate
- 68. Consult independently
- 69. Construct meaning
- 70. Contrast strikingly
- 71. Contribute little
- 72. Contribute positively
- 73. Correct consistently
- 74. Correlate significantly
- 75. Correlate strongly
- 76. Deal effectively
- 77. Decrease dramatically
- 78. Deem acceptable
- 79. Deemed appropriate
- 80. Deemed important
- 81. Delve deeply
- 82. Depend heavily (on)
- 83. Develop naturally
- 84. Developed unexpectedly
- 85. Differ considerably
- 86. Differ markedly
- 87. Differ significantly
- 88. Disregard strongly
- 89. Discuss directly
- 90. Discuss individually
- 91. Discuss intensively
- 92. Do better
- 93. Do well

94. Drop precipitously 95. Drop substantially 96. Elaborate extensively 97. Evidence (no) interest (in) 98. Evolve strongly 99. Examine carefully 100.Examine closely 101.Explore extensively 102.Express explicitly 103.Express independently 104.Express orally 105.Fall short 106.Fare better 107.Fare well 108.Feel challenged 109. Feel comfortable 110.Feel confident 111.Feel confused 112.Feel encouraged 113.Feel enormous 114.Feel inclined 115.Feel isolated 116.Feel motivated 117.Feel overwhelmed 118.Feel similarly 119.Feel proud 120.Feel uncomfortable 121.Feel unsure 122. Find challenging 123.Find difficult 124.Find easy

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125.Find helpful 126.Find necessary 127. Find sparingly 128.Find useful 129.Find valuable 130.Fit neatly 131.Fit well 132.Flow naturally 133.Flow uninterruptedly 134. Focus exclusively 135. Focus explicitly 136. Focus mainly 137.Focus predominantly 138. Focus primarily 139. Found predominantly 140.Function differently 141.Grow rapidly 142.Go awry 143.Go further 144. Guess correctly 145.Hold potential 146.Hold true 147.Impact positively 148.Impact significantly 149.Implement effectively 150.Improve firmly 151.Improve substantially 152.Indicate clearly 153.Indicate verbally 154.Influence inappropriately 155.Keep current 156.Keep occupied

157.Link directly 158.Look carefully (into) 159.Look closely (at) 160.Look deeply (into) 161.Make accessible 162.Make apparent 163.Make arduous 164.Make attainable 165.Make available 166.Make better 167.Make briefly 168.Make certain 169.Make clear 170. Make comfortable 171.Make concise 172.Make covert 173.Make difficult 174.Make explicit 175.Make feasible 176.Make impossible 177.Make overt 178.Make possible 179.Make realistic 180.Make untenable 181.Make visible 182.Measure rigorously 183.Merit additional research 184. Move simultaneously 185.Navigate successfully 186.Negotiate explicitly 187.Negotiate implicitly 188.Occur frequently

189.Occur instantaneously 190.Occur often 191.Occur significantly 192.Occur spontaneously 193.Operate effectively 194.Operate independently 195.Participate effectively 196.Participate voluntarily 197.Pay particular attention 198.Perform better 199.Perform extensively 200.Perform highly 201.Perform poorly 202.Perform well 203.Portray comprehensively 204.Portray transparently 205.Post regularly 206.Predict accurately 207.Present effectively 208.Present orally 209. Present persuasively 210.Pronounced differently 211.Prove (to be) effective 212.Prove (to be) efficient 213.Prove (to be) sure 214.Prove fruitful 215.Prove impossible 216.Prove (to be) useful 217.Provide potential (for) 218.Provide profitable (over) 219.Put differently 220.Rate equally

221.Read silently 222.Record alphabetically 223.Rely exclusively (on) 224. Rely heavily (on) 225.Remain accessible 226.Remain consistently 227.Remain imperfect 228.Remain opaque 229.Remain similar 230.Remain strong 231.Remain unanswered 232.Remain unchanged 233.Remain unclear 234. Remain undecided 235.Remind regularly 236.Report explicitly 237.Respond freely 238. Respond physically 239.Respond verbally 240. Review critically 241.Run counter 242.Seem achievable 243.Score better 244.Seem common 245.Seem competent 246.Seem conclusive 247.Seem desirable 248.Seem feasible 249.Seem intuitive 250. Seem largely 251.Seem likely 252.Seem minor

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253.Seem obvious 254.Seem pertinent 255.Seem plausible 256.Seem prudent 257.Seem reasonable 258.Seem relevant 259.Seem sensible 260.Seem sensitive 261.Seem similar 262.Seem undesirable 263.Seem unexpected 264.Seem uninteresting 265.Seem unreasonable 266.Seem unsure 267.Select randomly 268.Set to stepwise 269.Shift dramatically 270.Sit uncomfortably (with)

271.Sound better 272.Sound positive 273.Speak correctly 274.Speak fluently 275.Speak freely 276.Speak openly 277.Speak positively 278.Speak proficiently 279.Spoken informally 280.Stay connected 281.Stem largely (from) 282.Submit electronically 283.Suggest alternative 284. Take further 285. Take part voluntarily 286. Take place incidentally 287. Take seriously 288. Talk enthusiastically

289. Teach explicitly 290. Think consciously 291.Think critically 292. Think deeply 293. Think longitudinally 294. Think nonlinearly 295.Translate quickly 296.Trigger new idea 297.Use correctly 298.Use effectively 299.Use heavily 300.Use inappropriately 301.Use independently 302.Use indiscriminately 303.Use inductively 304.Used frequently 305.Used subsequently 306.Used variably

307.Utilize successfully 308. Vary greatly 309. Vary significantly 310. Vary widely 311. View effectively 312. Viewed differently 313. Wish fervently 314.Work autonomously 315.Work collaboratively 316. Work creatively 317. Work independently 318. Work individually 319. Work together 320. Write accurately 321.Write academically 322. Write extensively 323.Write fluently

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NOUN + VERB

- 1. Analyses indicate
- 2. Analyses show
- 3. Article describe
- 4. Article discuss
- 5. Article examine
- 6. Article focus
- 7. Article present
- 8. Article report
- 9. Article seek
- 10. Article suggest
- 11. Attempt to achieve
- 12. Change to practise
- 13. Concern arise
- 14. Data consist
- 15. Data elicit
- 16. Data indicate
- 17. Data provide
- 18. Data reveal
- 19. Data show
- 20. Data suggest
- 21. Data were analyzed
- 22. Data were collected
- 23. Desire to interact
- 24. Difference were found
- 25. Evidence exist
- 26. Evidence suggest
- 27. Evidence support
- 28. Figure illustrate

- 29. Figure indicate
- 30. Figure represent31. Figure show
- 32. Findings demonstrate
- 33. Findings find
- 34. Findings indicate
- 35. Findings reveal
- 36. Findings show
- 37. Findings suggest
- Findings suggest
 Findings support
- 39. Investigation describe
- 40. Issues to consider
- 41. Lack of knowledge
- FI. Lack of knowledge
- 42. Learning environment
- 43. Literature propose
- 44. Literature reveal
- 45. Literature show
- 46. Literature suggest
- 47. Misunderstanding occur
- 48. Need to communicate
- 49. Need to go
- 50. Need to help
- 51. Paper consider
- 52. Paper examines
- 53. Paper report
- 54. Paper summarize
- 55. Program design
- 56. Question arise
- 0. Question anse

- 57. Report claim
- 58. Report confirm
- 59. Research show
- 60. Results demonstrate
- 61. Results determine
- 62. Results enable
- 63. Results give
- 64. Results indicate
- 65. Result provide
- 66. Results reveal
- 67. Results show
- 07. Results show
- 68. Results suggest
- 69. Story reveal
- 70. Studies prove
- 71. Study address
- 72. Study aim
- 73. Study analyze
- 74. Study attempt
- 75. Study combine
- 76. Study compare
- 77. Study contribute
- 78. Study demonstrate
- 79. Study employ
- 80. Study examine
- 81. Study explore
- 82. Study find
- 83. Study focus
- 84. Study give

86. Study investigate
87. Study look at
88. Study mark
89. Study provide
90. Study raise
91. Study report
92. Study reveal
93. Study set out
94. Study show
95. Study suggest
96. Study use
97. Study was conducted
98. Survey reveal

85. Study intend

- 99. Survey show
- 100. Table compare
- 101.Table contain
- 102.Table include
- 103. Table shed light on
- 104.Table show
- 105.Table summarize
- 106.Table present
- 107. Table provide
- 108. Table represent

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109. Table reveal

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NOUN + NOUN

- 1. Access information
- 2. Achievement gap
- 3. Assessment criteria
- 4. Blanket statement
- 5. Book review
- 6. Capstone experience
- 7. Case of death
- 8. Case of life
- 9. Catering staff
- 10. Chance of success
- 11. (in) Class use
- 12. Composing process
- 13. Conference attendance
- 14. Consent form
- 15. Context cue
- 16. Correction of error
- 17. Construing meaning
- 18. Construing reality
- 19. Curriculum development
- 20. Data analysis
- 21. Data collection
- 22. Data description
- 23. Decision-making process
- 24. Developmental opportunities
- 25. Development study
- 26. Devoid of originality
- 27. Discourse community
- 28. Discussion board
- 29. Dissemination of knowledge
- 30. Education reform
- 31. Effect size

- 32. Effect value
- 33. Equipment failure
- 34. Error correction
- 35. Error detection
- 36. Feeling of insecurity
- 37. Feeling of isolation
- 38. Feeling of unease
- 39. Frequency of occurrence
- 40. Future success
- 41. Gender difference
- 42. Hallmark of data
- 43. Harbinger of change
- 44. Head start
- 45. Home discipline
- 46. Humanist orientation
- 47. Identity construction
- 48. Importance of repetition
- 49. Information retrieval
- 50. Input flood
- 51. Intend of study
- 52. Key to understanding
- 53. Knowledge source
- 54. Lack of awareness
- 55. Lack of clarity
- 56. Lack of competence
- 57. Lack of confidence
- 58. Lack of credibility
- 59. Lack of evidence
- 60. Lack of exposure
- 61. Lack of familiarity
- () Lack of fluences
- 62. Lack of fluency

- 63. Lack of interactivity
- 64. Lack of interest
- 65. Lack of knowledge
- 66. Lack of outcome
- 67. Lack of time
- 68. Lack of understanding
- 69. Language awareness
- 70. Language development
- 71. Language minority
- 72. Language proficiency
- 73. Language use
- 74. Learner autonomy
- 75. Learning experience
- 76. Learning opportunity
- 77. Learning outcome
- 78. Learning preference
- 79. Learning style
- 80. Learning tool
- 81. Level of proficiency
- 82. Life expectancy
- 83. Life experience
- 84. List of names
- 85. Matter of perspective
- 86. Mother tongue
- 87. Paucity of research
- 88. Peer feedback
- 89. Period of fluctuation
- 90. Policy decision
- 91. Policy maker
- 92. Pool of participants
- 93. Poverty reduction

97. Proficiency level 98. Reading achievement 99. Reading comprehension 100.Reading for pleasure 101.Reference material 102.Repertoire of practice 103.Research gap 104.Research paradigm 105.Research proposal 106.Research question 107.Research study 108.Retention of word 109.Risk factor 110.Risk taker 111.Role model 112.Role play 113.Rote learning 114.Search engine 115.Security guards 116.Sense of dissatisfaction 117.Sense of solidarity 118.Sense of uncertainty 119.Set of values 120.Shortcoming of study 121.Sign of deficiency 122.Significance of difference 123. Socialization process

124.Solidarity activity

94. Power relationship

95. Preparation class

96. Priority topic

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125.Source of dissatisfaction
126.Source of frustration
127.Source of information
128.Source of knowledge
129.Speed of access
130.Stereotype threat
131.Student achievement
132.Student failure
133.Student success
134.Subject matter
135.Subject of debate
136.Teacher assessment
137.Teacher correction

138. Teacher education
139. Teacher intervention
140. Teacher involvement
141. Teaching practice
142. Teaching session
143. Technology use
144. Time management
145. Time constraint
146. Topic familiarity
147. Topic of interest
148. Transmission of ideologies
149. Tutor feedback
150. Umbrella term

151.University culture
152.Use of information
153.Use of knowledge
154.Vantage level
155.Vantage point
156.Vocabulary acquisition
157.Vocabulary complexity
159.Vocabulary development
160.Vocabulary growth
161.Vocabulary knowledge
162.Waste of time
163.Wealth of data

164.Woking day
165.Woking experience
166.Working hours
167.Workplace communication
168.Worthy of comment
169.Writing ability
170.Writing competence
171.Writing development
172.Writing performance
173. Writing task

Appendix 1 continuing (page 10/25)

ADJECTIVE + NOUN

- 1. Absolute growth
- 2. Absolute learning
- 3. Abstract meaning
- 4. Academic affairs
- 5. Academic communication
- 6. Academic community
- 7. Academic development
- 8. Academic literacy
- 9. Academic prestige
- 10. Academic rigor
- 11. Academic setting
- 12. Academic success
- 13. Academic text
- 14. Academic values
- 15. Academic writing
- 16. Acceptable errors
- 17. Acceptable level
- 18. Accurate assessment
- 19. Acquisitional benefits
- 20. Active role
- 21. Actual role
- 22. Added value
- 23. Additional attention
- 24. Additional benefit
- 25. Additional factors
- 26. Additional help
- 27. Additional information
- 28. Additional instruction
- 29. Additional work
- 30. Additive revision
- 31. Adequate account

- 32. Adequate data
- 33. Administrative efficiency
- 34. Adult learner
- 35. Advantageous positions
- 36. Adversarial aspect
- 37. Adverse experience
- 38. Adverse impact
- 39. Affective factors
- 40. Agitated passengers
- 41. Agreed solution
- 42. Alternative applications
- 43. Alternative perspective
- 44. Amalgamated corpora
- 45. Ambiguous idea
- 46. Ambiguous notion
- 47. Ample evidence
- 48. Ample opportunity
- 49. Analytic insights
- 50. Anecdotal evidence
- 51. Anecdotal observation
- 52. Annual conference
- 53. Antagonistic question
- 54. Apparent discrepancy
- 55. Apparent growth
- 56. Apparent reluctance
- 57. Appealing idea
- 58. Applied science
- 59. Ardent support
- 60. Arduous challenge
- 61. Attainable goal
- 62. Attentional span

- 63. Attentive observation
- 64. Attractive feature
- 65. Authentic data
- 66. Authentic materials
- 67. Authentic purpose
- 68. Authoritative stance
- 69. Autonomous activity
- 70. Autonomous learning
- 71. Awkward implication
- 72. Awkward question
- 73. Background knowledge
- 74. Baseline population
- 75. Basic claim
- 76. Basic concept
- 77. Basic design
- 78. Basic fact
- 79. Basic feature
- 80. Basic goal
- 81. Basic principles
- 82. Basic skill
- 83. Basic outline
- 84. Baseline knowledge
- 85. Beneficial effect
- 86. Best solution
- 87. Better understanding
- 88. Better indication
- 89. Better insight
- 90. Better way
- 91. Blind rating
- 92. Bilingual competence
- 93. Blunt measures

95. Bridging strategy 96. Brief comment 97. Brief description 98. Brief discussion 99. Brief glance 100.Brief outline 101.Brief prompt 102.Brief statement 103.Broad base 104.Broad-brush picture 105.Capturing idea 106.Catalytic effect 107.Categorical claim 108.Central aim 109.Central concern 110.Central goal 111.Central position 112.Central purpose 113.Central role 114.Certain knowledge 115.Certain requirement 116.Challenging goal 117.Challenging skill 118.Challenging task 119.Changing market 120.Changing nature

94. Bootstrapping process

- 121.Chronicling process 122.Chronological framework 123.Clarification question
- 124.Clarification request

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125.Clear answer 126.Clear assessment 127.Clear conclusion 128.Clear contradiction 129.Clear criticism 130.Clear demarcations 131.Clear difference 132.Clear effect 133.Clear evidence 134.Clear impetus 135.Clear improvement 136.Clear instability 137.Clear orientation 138.Clear purpose 139.Clear sense 140.Clear tendency 141.Clear understanding 142.Clerical work 143.Close attention 144.Close connection 145.Close resemblance 146.Cognitive effort 147.Cognitive load 148.Cognitive overlook 149.Cognitive process 150.Cognitive skill 151.Cognitive strategy 152.Collaborative environment 153.Collaborative task 154.Collective knowledge 155.Common errors 156.Common goal

157.Common language 158.Common purpose 159.Common subject 160.Common thread 161.Communicative purpose 162.Competitive ethos 163.Competitive relationship 164.Complete agreement 165.Complete convergence 166.Complete list 167.Complete picture 168.Complex pattern 169.Complex process 170.Complicated construct 171.Comprehensible input 172.Comprehensive analysis 173.Comprehensive overview 174.Comprehensive review 175.Comprehensive understanding 176.Comprehensive view 177.Concerted effort 178.Conclusive difference 179.Concomitant changes 180.Concrete example 181.Concrete meaning 182.Conflicting nature 183.Conflicting results 184.Conscious attention 185.Conscious effort 186.Considerable attention 187.Considerable variation 188.Considerable controversy

189.Considerable difficulty 190.Considerable evidence 191.Considerable importance 192.Considerable progression 193.Considerable revision 194.Considerable variation 195.Consistent effect 196.Consistent predictor 197.Consistent use 198.Constructive feedback 199.Context-sensitive perspective 200.Contextual information 201.Continued disparities 202.Continuing debate 203.Continuous assessment 204.Continuous development 205.Continuous growth 206.Contradictive topic 207.Contradictory account 208.Contradictory finding 209.Contributory factor 210.Controlled task 211.Conventional look 212.Convergent evidence 213.Convergent goal 214.Core belief 215.Core characteristic 216.Core reason 217.Core subject 218.Correct answer 219.Correct prediction 220. Corrective device

221.Corrective feedback 222.Cost/benefit analysis 223.Covert racism 224.Creative beings 225.Creative use 226.Creative writing 227.Critical analyses 228.Critical awareness 229.Critical component 230.Critical essay 231.Critical influence 232.Critical issue 233.Critical perspective 234.Critical problem 235.Critical thinking 236.Critical viewpoint 237.Cross-sectional study 238.Crucial point 239.Crucial role 240.Culminating experience 241.Cultural background 242. Cultural difference 243.Cultural heterogenization 244.Cultural homogenization 245.Cultural identity 246.Cumulative process 247.Cumulative view 248. Curricular constraints 249.Curricular goals 250.Cursory glance 251.Cut-off point 252. Daily conversation

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253. Daily interaction 254.Daily life 255.Daily lives 256.Dampening effect 257.Daunting task 258.Debriefing session 259.Decent pronunciation 260.Declarative knowledge 261.Decreased use 262.Deep level 263.Deeper insight 264.Deeper understanding 265.Delaying consideration 266.Demographic characteristics 267. Demographic information 268.Demotivating effect 269.Descriptive data 270.Descriptive feedback 271.Desirable outcome 272.Desired goal 273.Detailed attention 274. Detailed research 275.Detailed scrutiny 276.Detailed suggestion 277.Determining factor 278.Determining role 279.Detrimental effect 280.Descriptive feedback 281.Developed countries 282.Developing knowledge 283.Developmental milestone 284.Developmental phenomenon

285.Different assumptions 286.Different path 287.Different view 288.Differential effect 289.Differential performance 290.Differing opinions 291.Digital device 292.Digital education 293.Digital technology 294.Direct instruction 295.Direct learning 296.Discernible biases 297.Discernible impact 298.Disciplinary context 299.Disciplinary knowledge 300.Discontiguous idea 301.Discrete information 302.Discrete phenomenon 303.Discrete stages 304.Disinterested generation 305.Distinct pattern 306. Distinctive feature 307.Divergent view 308.Diverging ideas 309. Diverging needs 310.Diverging patterns 311.Doctoral student 312.Dominant focus 313.Dominant language 314.Dominant norm 315.Dominant theme 316.Dramatic change

317.Driving force 318. Dubious quality 319. Durable learning 320.Dynamic interplay 321.Early descriptions 322.Early development 323.Early stage 324.Early work 325.Ease-of-learning ranking 326. Economic opportunities 327.Educational contexts 328.Educational experience 329.Educational goal 330.Educational profile 331.Effective communication 332. Effective description 333.Effective means (of) 334. Effective measure 335.Effective reading 336.Effective strategy 337.Effective teaching 338.Effective tool 339.Effective use 340.Effective voice 341.Effective ways 342.Efficient reading 343.Efficient use 344. Electronic submission 345.Eliciting ideas 346.Eminent researcher 347.Empirical analyses 348.Empirical basis

349. Empirical data 350.Empirical evidence 351. Empirical finding 352. Empirical investigation 353.Empirical research 354. Empirical study 355.Empirical work 356.Enslaved individuals 357.Enthusiastic advocates 358.Environmental awareness 359.Environmental variables 360.Ephemeral nature 361.Epilinguistic level 362.Equal chance 363.Equal opportunity 364.Equal prominence 365.Erroneous assumption 366.Erroneous correction 367.Essential component 368.Essential criteria 369.Essential information 370.Essential method 371. Ethical obligation 372. Even distribution 373.Evident ground 374. Evolutionary advantage 375.Excellent examples 376.Excessive control 377.Excessive reliance 378.Exhaustive research 379.Existing evidence **380.Experienced** raters

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381.Experienced teacher 382.Experiential study 383.Explicit attention 384.Explicit discussion 385.Explicit learning 386.Explicit instruction 387.Explicit knowledge 388.Explicit intervention 389.Explicit opportunity 390.Explicit teaching 391.Explicit treatment 392.Exploratory study 393.Extensive control 394. Extensive difference 395.Extensive experience 396.Extensive use 397.External factor 398.Extrinsic motive 399. Facile access 400.False impression 401.Fair assumption 402.Fair treatment 403.False start 404.Fast-growing countries 405.Fata accident 406.Fertile sites (for) 407. Final resolution 408. Financial loss 409. Fine distinction 410. Fine-grained distinctions 411.Firm grasp 412 Fixed view

413.Flat tone 414.For-credit work 415. Foregoing discussion 416.Foreign accent 417. Formal presentation 418.Fragmented account 419.Front-line practitioners 420 Fruitful area 421.Fruitful research 422.Full account 423.Full credit 424. Full participation 425.Full review 426 Fundamental aim 427.Fundamental difference 428.Fundamental goal 429.Functional purpose 430.Functional relation 431. Fundamental factors 432.Fundamental issue 433.Fundamental role 434.Further analyses 435.Further challenge 436.Further consideration 437. Further correction 438.Further drop 439.Further evidence 440.Further exploration 441.Further information 442.Further insight 443.Further level 444.Further point

445.Further reinforcement 446. Further research 447.Further studies 448.Further support 449.Future possibilities 450.Future studies 451.General acceptance 452.General pattern 453.General rise 454.General trend 455.Generic term 456.Genuine opportunity 457.Global access 458.Global connectivity 459.Global importance 460.Global investment 461.Global phenomenon 462.Good comprehension 463.Grave concern 464.Great advantage 465.Great appetite 466.Great care 467. Great effect 468.Great effort 469.Great gap 470.Great impediment 471.Great interest 472. Ground-breaking investigation 473.Growing interest 474. Growing evidence 475.Handsome benefits 476.Hard copy

477.Hard science 478.Hard work 479.Heated debate 480.Heated discussion 481.Heavy demand 482.Heavy strain 483.Helpful suggestion 484.High-quality instructions 485.Historical evidence 486.Holistic scoring 487.Homogenous group 488.Hushed asides 489.Ideological presuppositions 490.Idiomatic usage 491.Ill-served needs 492.Immediate use 493.Implicit instruction 494.Implicit intervention 495.Implicit knowledge 496.Implicit learning 497.Implicit treatment 498.Important advantage 499.Important bearing (on) 500.Important caveats 501.Important challenges 502.Important changes 503.Important characteristics 504.Important concern 505.Important consideration 506.Important contribution 507.Important criterion 508.Important development

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509.Important disadvantage 510.Important factor 511.Important feature 512.Important finding 513.Important gap 514.Important goal 515.Important implications 516.Important insight 517.Important issue 518.Important limitations 519.Important milestone 520.Important observation 521.Important problem 522.Important question 523.Important ramification 524.Important reason 525.Important resource 526.Important role 527.Important similarities 528.Important source 529.Important stage 530.Important steps 531.Important task 532.Important themes 533.Important values 534.Impressionistic look 535.Inaccurate evidence 536.Inadequate attention 537.Inadequate training 538.Inadvertent oversight 539.Inappropriate response 540.Incidental learning

541.Inconclusive findings 542.Incorrect use 543.Increased practice 544. Increased scrutiny 545.Increasing conformity 546.Increasing interest 547.Increasing prominence 548.Increasing urgency 549.Independent coding 550.Independent evaluation 551.Independent learning 552.Independent measure 553.Indigenous language 554.Indirect effect 555.Individual difference 556.Individual thought 557.Individualistic activity 558.In-depth distinction 559.In-depth examination 560.In-depth understanding 561.Individual variability 562. Individualistic view 563.Informal conversation 564.Inherent property 565.Initial contribution 566.Initial experience 567.Initial study 568.Initial support 569.Innovative knowledge 570.Innovative project 571.Insightful comment 572.Insightful enquiry

573.Insightful overview 574.Instant payback 575.Intangible nature 576.Interesting insight 577.Intrinsic motivation 578.Instant payback 579.Instant messaging 580.Instructional content 581.Instructional practice 582.Instructional support 583.Insufficient training 584.Integrative view 585.Intellectual rigour 586. Intense criticism 587.Intense struggle 588.Intensive writing 589.Intercultural communication 590.Interesting difference 591.Interesting finding 592.Interesting insight 593.Interesting signs 594. International student 595.Intimidate knowledge 596.Intriguing case 597.Intriguing finding 598.Intriguing question 599.Intrinsic motive 600.Irritating errors 601.Iterative process 602. Jarring effect 603. Judicious intervention 604.Key changes

605.Key characteristics 606.Key component 607.Key development 608.Key element 609.Kev evidence 610.Key factor 611.Key feature 612.Key Figure 613.Key finding 614.Key issue 615.Key person 616.Key point 617.Key question 618.Key research 619.Key resource 620.Key role 621.Key skill 622.Key subject 623.Key term 624.Key theme 625.Key values 626.Key words 627.Labour-intensive research 628.Language-analytic ability 629.Large corpora 630.Large difference 631.Large effect 632.Large impact 633.Large-scale movement 634.Large-scale studies 635.Lasting impact 636.Legal advice

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637.Less-researched discipline 638.Lexical access 639.Lexical accessibility 640.Lexical choice 641.Lexical competence 642.Lexical complexity 643.Lexical deterioration 644.Lexical development 645.Lexical diversity 646.Lexical inference 647.Lexical knowledge 648.Lexical retrieval 649.Lexical sophistication 650.Life-claiming failure 651.Liberating opportunities 652.Limited accessibility 653.Limited contact 654.Limited experience 655.Limited opportunity 656.Limited resource 657.Limitless ways 658.Lingering affection 659.Lingering tendency 660.Linguistic awareness 661.Linguistic development 662.Linguistic gains 663.Little attention 664.Little consensus 665.Little difference 666.Little evidence 667.Little experience 668.Little impact

669.Little interest 670.Little room (space) 671.Little work 672.Lived experiences 673.Lively debate 674.Living creatures 675.Local errors 676.Local adaptations 677.Localized dialect 678.Logical issue 679.Longitudinal study 680.Long-term effect 681.Long-term exponent 682.Long-term memory 683.Main contribution 684.Main development 685.Main difference 686.Main features 687.Main stakeholders 688.Main topic 689.Major changes 690.Major findings 691.Major focus 692.Major goal 693.Major impact 694.Major paradigm 695.Major struggle 696.Major task 697.Mandatory examination 698.Manifold needs 699. Marginally significant 700. Massive collection

701.Meaningful contribution 702.Meaningful way 703.Measurable contribution 704. Mediating factor 705.Mental lexicon 706.Merit-based scholarship 707.Metaphorical use 708.Metalinguistic knowledge 709.Methodological design 710.Methodological rigor 711. Minimal difference 712. Minimum requirements 713.Mobile devices 714. Moderate correlation 715.Modest impact 716.Motivational factor 717. Multiple experience 718. Mutable state 719.Native English 720.Natural phenomenon 721.Naturalistic setting 722.Naturally-occurring interactions 723.Near-native English 724.Negative association 725.Negative comment 726.Negative consequence 727.Negative effect 728.Negative emotion 729.Negative evaluation 730.Negative evidence 731.Negative reaction 732.Negligible effect

733.Negligible impact 734.New word 735.Noisy data 736.Nonlinear relationship 737.Non-native English 738.Notable difference 739.Notable example 740.Notable exceptions 741.Notable features 742.Notable issue 743.Notable success 744.Noteworthy exception 745.Noticeable difference 746.Noticeable growth 747.Noticeable way 748.Novice student 749.Novice user 750.Nuanced view 751.Obedient listeners 752.Obfuscatory works 753.Obligatory features 754. Observable difference 755.Observational experience 756.Observed difference 757.Obvious effect 758. Obvious limitations 759.Obvious potential 760. Obvious similarities 761.Offline use 762.Ongoing debates 763.Ongoing discussion 764.Ongoing emergence

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765.Ongoing evaluation 766.Ongoing opportunity 767.Ongoing process 768.Online verification 769. Operating costs 770.Optimal condition 771.Optimal level 772.Optimal performance 773.Oral communication 774.Oral development 775.Oral negotiations 776.Oral performance 777.Oral presentation 778.Out-of-class experience 779.Out-of-class opportunity 780.Overall changes 781. Overall evaluation 782.Overall finding 783.Overall impression 784.Overall picture 785.Overall purpose 786.Overall quality 787.Overall responsibility 788.Overall use 789.Overarching aim 790.Overarching criterion 791.Overarching goal 792.Overarching issue 793. Overarching question 794. Overhead transparency 795.Overt correction 796. Overt evidence

797.Paradoxical relationship 798.Parallel development 799.Parallel work 800.Partial advantage 801.Partial knowledge 802.Particular attention 803.Particular interest 804.Passing score 805.Pedagogical belief 806.Pedagogical challenge 807.Pedagogical implications 808.Pedestrian safety 809.Pedagogic challenges 810.Pedagogic use 811.Pedagogical intervention 812.Perceptible difference 813.Perennial problem 814.Permanent career 815.Permanent imprint 816.Persistent instability 817.Personal biases 818.Personal experience 819.Personal profile 820.Personal thing 821.Persuasive arguments 822.Persuasive research 823.Pertinent questions 824.Physical skill 825.Piecemeal weighing 826.Pilot study 827.Pioneering work 828.Pivot word

829.Pivotal role 830.Planning talk 831.Plausible explanation 832.Plausible idea 833.Plausible option 834. Plurilingual identity 835.Poignant analogy 836.Polarized debate 837.Political realities 838.Political stance 839. Poor performance 840.Populous states 841.Positive affirmation 842.Positive change 843.Positive contribution 844.Positive correlation 845.Positive effect 846.Positive emotion 847. Positive evaluation 848.Positive evidence 849.Positive finding 850.Positive impact 851.Positive interdependence 852.Positive relationship 853.Possible conclusion 854.Possible errors 855.Possible explanation 856.Possible outcome 857.Possible solution 858.Potential benefit 859.Potential consequence 860.Potential efficacy

861.Potential effect 862.Potential implication 863.Potential influence 864.Potential link 865.Potential opportunity 866.Potential pitfall 867.Potential problem 868.Potential shortcoming 869.Potential similarities 870.Potential source 871.Powerful difference 872.Powerful hardware 873. Powerful influence 874. Powerful tool 875.Powerful vehicles 876.Practical application 877.Practical suggestions 878.Practical terms 879.Pragmatic competence 880.Pragmatic knowledge 881.Predictable difference 882.Predictable effect 883.Predictable outcome 884.Predictive accuracy 885.Predictive power 886.Predominant features 887.Preliminary indication 888.Preventative intervention 889.Prevailing orientation 890.Previous research 891.Prior experience 892.Prior knowledge

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893.Primary aim 894.Primary concern 895.Primary criterion 896.Principal component 897.Principled manner 898.Private belongings 899.Probable reasons 900.Problem-solving task 901.Procedural knowledge 902.Professional development 903.Professional purposes 904.Profound effect 905.Prominent feature 906.Prominent words 907.Protective effect 908. Provisional answer 909.Publishable article 910.Published work 911.Pure science 912.Purpose-built corpora 913.Push-back scenario 914. Putative contribution 915.Putative stage 916.Puzzling term 917. Qualitative analysis 918. Qualitative evidence 919. Qualitative study 920.Quantitative analysis 921. Quantitative evidence 922.Quantitative study 923. Ouick access 924.Radical implication

- 925. Random selection926. Rapid expansion
- 927. Rapid growth
- 928. Rapid increase
- 929. Rapid change
- 930. Rapid development
- 931. Rare occurrence
- 932. Rating criteria
- 933. Raw comment
- 934. Ready-made corpora
- 935. Real advantage
- 936. Real problem
- 937. Real world
- 938. Real-world task
- 20 D 11 1
- 939. Reasonable degree
- 940. Reasoned argument
- 941. Recent studies
- 942. Receptive knowledge
- 943. Recognizable phenomenon
- 944. Recommended value
- 945. Reductionist view
- 946. Recurring question
- 947. Regular basis
- 948. Real-life experience
- 949. Real-life situation
- 950. Reliable criteria
- 951. Reliable insight
- 952. Reliable prediction
- 953. Residual capacity
- 954. Restricted true
- 54. Resulting the
- 955. Rigorous manner
- 956. Rigorous training

- 957. Robust argument
- 958. Robust contribution
- 959. Robust difference
- 960. Robust effect
- 961. Robust finding
- 962. Robust inquiry
- 963. Robust predictor
- 964. Robust reason
- 965. Robust role
- JOS. RODUSTIC
- 966. Rote-learning ability
- 967. Routine activities
- 968. Rubric-based decision
- 969. Rudimentary purpose
- 970. Running costs
- 971. Qualitative investigation
- 972. Quantitative investigation
- 973. Salient difference
- 974. Salient features
- 975. Scaffolding skills
- 976. Selective process
- 977. Sensitive dependence
- 978. Serious problem
- 979. Scientific knowledge
- 980. Semantic integrity
- 981. Semantic knowledge
- 982. Sensitive intervention
- 983. Sequential order
- 984. Severe criticism
- 985. Sheer number
- 986. Short-term gains
- 987. Significant advantage
- 988. Significant assistant

990. Significant bearing Significant benefit 991. 992. Significant challenges 993. Significant contribution 994. Significant correlation 995. Significant difference 996. Significant drop 997. Significant effect 998. Significant exception 999. Significant example 1000. Significant factor 1001. Significant gains 1002. Significant gap 1003. Significant impact 1004. Significant improvement 1005. Significant level 1006. Significant part 1007. Significant predictor 1008. Significant relationship 1009. Significant result 1010. Significant role 1011. Significant stimulus 1012. Similar point 1013. Simple task 1014. Specific context 1015. Similar concern 1016. Similar situations 1017. Similar outcome 1018. Slight difference 1019. Slight effect 1020. Slight increase

Significant attention

989.

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1021. Small difference 1022. Small gains 1023. Small-scale study 1024. Small tendency 1025. Social interaction 1026. Social justice 1027. Social opportunities 1028. Social relationship 1029. Social underpinning 1030. Societal biases 1031. Socio-economic status 1032. Soft science 1033. Sophisticated idea 1034. Sophisticated information 1035. Sophisticated use 1036. Specialized corpora 1037. Specialized knowledge 1038. Specific context 1039. Specific purpose 1040. Spontaneous conversation 1041. Spontaneous speech 1042. Stable trait 1043. Static relation 1044. Starting point 1045. State-wide exam 1046. Static view 1047. Statistically significant 1048. Steady flow 1049. Steady improvement 1050. Straightforward task 1051. Straightforward tendency 1052. Stratified sampling

1053. Striking difference 1054. Striking feature 1055. Striking finding 1056. Striking similarity 1057. Strong agreement 1058. Strong association 1059. Strong benefit 1060. Strong bias 1061. Strong caution 1062. Strong claim 1063. Strong correlation 1064. Strong effect 1065. Strong emphasis 1066. Strong evidence 1067. Strong focus 1068. Strong foundation 1069. Strong indication 1070. Strong interest 1071. Strong performance 1072. Strong possibility 1073. Strong preference 1074. Strong presence 1075. Strong support 1076. Strong tendencies 1077. Stylistic difference 1078. Subsidiary aim 1079. Subsidiary focus 1080. Substantial claim 1081. Substantial difference 1082. Substantial evidence 1083. Substantial goal 1084. Substantial handicap

1085. Substantial mismatch 1086. Substantial shift 1087. Subtle difference 1088. Successful presentation 1089. Succinct idea 1090. Sudden shift 1091. Sufficient attention 1092. Suggested alternative 1093. Suitable stimuli 1094. Superior performance 1095. Supervised teaching 1096. Supplementary material 1097. Supplementary resource 1098. Surprising advantages 1099. Surprising results 1100. Surrounding area 1101. Sustained development 1102. Systematic analysis 1103. Systematic evidence 1104. Target-centric perspective 1105. Technical advantage 1106. Technical support 1107. Tedious work 1108. Tentative interest 1109. Tentative suggestion 1110. Thematic content 1111. Theoretical commitment 1112. Theoretical foundation 1113. Theoretical framework 1114. Theoretical grounding 1115. Theoretical interest 1116. Theoretical prediction

1117. Theoretical support 1118. Timely feedback 1119. Timely movement 1120. Top-down initiative 1121. Top priority 1122. True description 1123. Ultimate aim 1124. Ultimate control 1125. Ultimate goal 1126. Ultimate hope 1127. Ultimate purpose 1128. Unabridged text 1129. Unbridgeable gulf 1130. Unconscious application 1131. Unconscious process 1132. Underlying assumptions 1133. Underlying similarities 1134. Unelaborated source 1135. Unexpected circumstance 1136. Unexpected finding 1137. Unexpected problem 1138. Unexpected question 1139. Unfamiliar words 1140. Unguided speech 1141. Uniform trend 1142. Unique contribution 1143. Unique experience 1144. Unique nature 1145. Unique opportunity 1146. Unique reason 1147. Universal norms 1148. Unknown vocabulary

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1149. Unknown word
1150. Unlikely event
1151. Unofficial language
1152. Unpredictable situations
1153. Unrealistic expectation
1154. Unrefined measurement
1155. Unsatisfactory situation
1156. Unsettling experience
1157. Unsurprising finding
1158. Untameable assumption
1159. Untapped area
1160. Unusual challenge
1161. Unusual scenarios
1162. Urgent need
1163. Useful aid

1164. Useful development 1165. Useful surrogate 1166. Useful tips 1167. Vague expectation 1168. Vague term 1169. Valid conclusion 1170. Valid indicator 1171. Valid interpretation 1172. Valuable endeavour 1173. Valuable experience 1174. Valuable information 1175. Valuable input 1176. Valuable insight 1177. Valuable resource 1178. Valuable step forward 1179. Valuable suggestion

1180. Value-laden behaviour 1181. Vanishing point 1182. (at) varying levels 1183. Vast literature 1184. Verbal fluency 1185. Vexing question 1186. Viable alternatives 1187. Viable tool 1188. Violated rule 1189. Virtual environment 1190. Visual cue 1191. Vital assumption 1192. Vital clues 1193. Vital role 1194. Vocabulary knowledge 1195. Weak impact

1196. Welcome outcome
1197. Widespread belief
1198. Widespread popularity
1199. Widespread resistance
1200. Widespread use
1201. Wildly-held beliefs
1202. Wired world
1203. Working memory
1204. World-wide interest
1205. Worrisome feature
1206. Worthwhile experience
1207. Written feedback
1208. Wrong answer
1209. Zero relevance

Appendix 1 continuing (page 20/25)

ADVERB + ADJECTIVE

- 1. Admittedly problematic
- 2. Adversely impact
- 3. Apparently beneficial
- 4. Arguably beneficial
- 5. Barely adequate
- 6. Barely coherent
- 7. Barely perceptible
- 8. Broadly applicable
- 9. Broadly confident
- 10. Broadly contrasting
- 11. Broadly representative
- 12. Centrally concerned
- 13. Certainly possible
- 14. Certainly problematic
- 15. Clearly adept
- 16. Clearly crucial
- 17. Clearly defined
- 18. Clearly evident
- 19. Clearly important
- 20. Clearly impossible
- 21. Clearly impractical
- 22. Clearly interpretable
- 23. Clearly specify
- 24. Clearly useful
- 25. Closely associated
- 26. Closely connected
- 27. Closely interconnected
- 28. Closely linked
- 29. Closely related
- 30. Cognitively challenging
- 31. Cognitively complex

- 32. Cognitively mature
- 33. Cognitively salient
- 34. Commonly known
- 35. Comparatively weaker
- 36. Completely appropriate
- 37. Completely comfortable
- 38. Completely discrete
- 39. Completely familiar
- 40. Completely free
- 41. Completely irrelevant
- 42. Completely negative
- 43. Completely positive
- 44. Completely wrong
- 45. Conceptually plausible
- 46. Conceptually simple
- 47. Concisely written
- 48. Considerably different
- 49. Considerable harder
- 50. Considerably weak
- 51. Consistently higher
- 52. Constantly changing
- 53. Contextually clear
- 54. Conventionally construed
- 55. Critically important
- 56. Culturally appropriate
- 57. Culturally biased
- 58. Culturally bond
- 59. Culturally different
- 60. Culturally distinct
- 61. Culturally familiar
- 62. Culturally sensitive

- 63. Culturally unfamiliar
- 64. Culturally variable
- 65. Daily routine
- 66. Descriptively real
- 67. Diametrically opposed
- 68. Directly related
- 69. Directly relevant
- 70. Directly transferable
- 71. Distantly related
- 72. Doubtlessly important
- 73. Dramatically different
- 74. Easily accessible
- 75. Easily definable
- 76. Easily forgotten
- 77. Easily replicable
- 78. Easily understandable
- 79. Economically disadvantaged
- 80. Effectively develop
- 81. Entirely new
- 82. Entirely plausible
- 83. Entirely unexpected
- 84. Equally challenging
- 85. Equally complex
- 86. Equally effective
- 87. Equally important
- 88. Equally sized
- 89. Equally well
- 90. Especially helpful
- 91. Especially important
- 92. Especially interesting
- 93. Especially notable

97. Extremely attractive 98. Extremely common 99. Extremely controversial 100.Extremely difficult 101.Extremely frequent 102.Extremely helpful 103.Extremely high 104.Extremely small 105.Extremely successful 106.Extremely useful 107.Fairly efficient 108. Fairly experienced 109. Fairly straightforward 110.Freely available 111.Frequently cited 112.Fully correct 113.Fully established 114.Fully realisable 115.Fully trained 116.Generally accepted 117.Generally agreed 118.Generally easier 119.Generally high 120.Generally positive 121.Generally reluctant 122. Genuinely interesting 123.Genuinely unexpected 124. Globally connected

94. Especially true95. Essentially practical

96. Explicitly present

Appendix 1 continuing (page 21/25)

125.Globally minded 126.Grammatically complex 127.Greatly opposed 128. Grossly inadequate 129.Hardly controversial 130.Hardly surprising 131. Highly conventional 132. Highly dependent 133. Highly diverse 134. Highly diversified 135. Highly influential 136. Highly interactive 137. Highly motivated 138. Highly problematic 139. Highly proficient 140. Highly ranked 141. Highly relevant 142. Highly reliable 143. Highly rated 144. Highly sensitive 145. Highly specialized 146.Highly specific 147. Highly trained 148. Highly likely 149. Highly unfavourable 150. Highly valued 151.Immediately concerned 152.Immediately obvious 153.Immediately striking 154.Increasingly important 155.Increasingly acceptable 156. Increasingly disengaged

157.Increasingly practical 158.Increasingly topical 159.Incredibly rich 160.Indirectly relevant 161.Inevitably limited 162.Inherently easy 163.Inherently problematic 164.Inherently wrong 165.Interestingly ambivalent 166.Internally cohesive 167.Intricately designed 168.Judiciously selected 169.Largely invisible 170.Largely similar 171.Largely superficial 172.Linearly related 173.Linguistically distinct 174.Locally educated 175.Mainly instrumental 176.Mainly interested 177.Marginally better 178. Marginally higher 179.Marginally significant 180.Marginally superior 181.Mostly significant 182.Narrowly distributed 183.Narrowly focused 184.Necessarily available 185.Necessarily correct 186.Necessarily valid 187.Newly prominent 188.Newly qualified

189.Notably limited 190.Notably rare 191.Noticeably stronger 192.Notoriously impervious 193.Oddly enough 194.Ostensibly desirable 195. Overly modest 196.Overly optimistic 197.Painfully aware 198.Partially attributable 199.Partially correct 200.Particularly challenging 201.Particularly complex 202.Particularly crucial 203.Particularly important 204. Particularly interested 205.Particularly interesting 206.Particularly motivated 207.Particularly popular 208.Particularly prominent 209.Particularly true 210.Particularly strong 211.Particularly useful 212.Particularly well 213.Partly attributable 214.Pedagogically oriented 215.Pedagogically useful 216.Pedagogically worthless 217.Perfectly possible 218.Polar opposite 219. Possibly obligatory 220.Potentially available

221.Potentially effective 222.Potentially important 223.Potentially negative 224.Potentially positive 225.Potentially problematic 226.Potentially useful 227.Potentially valuable 228.Precisely written 229.Predominantly active 230.Presently underway 231.Probably insufficient 232.Professionally produced 233. Prohibitively expensive 234. Publicly available 235.Purely explicit 236.Purportedly generic 237. Ouite bad 238. Quite common 239. Quite different 240.Quite difficult 241. Ouite easy 242. Quite evident 243.Quite frequent 244.Quite helpful 245. Quite interesting 246.Quite seriously 247. Quite similar 248.Radically different 249.Randomly selected 250.Rapidly changing 251.Rapidly developing 252.Rapidly evolving

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253.Readily apparent 254.Readily available 255.Readily acceptable 256.Readily accessible 257.Really important 258.Reasonably extensive 259.Reasonably large 260.Reasonably possible 261.Relatively consistent 262.Relatively easy 263.Relatively frequent 264.Relatively high 265.Relatively large 266.Relatively long 267.Relatively little 268.Relatively narrow 269.Relatively new 270.Relatively predictable 271.Relatively reliable 272.Relatively similar 273.Relatively simple 274.Relatively small 275.Relatively straightforward

276.Relatively superficial 277.Remarkably similar 278. Richly multicultural 279.Richly multilingual 280.Richly varied 281.Robustly significant 282.Roughly equivalent 283.Scholarly interesting 284.Seemingly infrequent 285.Seemingly relentless 286.Seemingly unavoidable 287.Seemingly unaware 288.Semantically opaque 289.Semantically related 290.Sharp increase 291.Significantly different 292.Significantly fluent 293.Significantly higher 294.Slightly different 295.Slightly higher 296.Slightly lower 297. Socially constructed 298. Socially constructive

299.Socially mediated 300. Statistically equivalent 301.Statistically significant 302.Staunchly opposed 303.Strictly forbidden 304. Strikingly clear 305.Strikingly different 306. Strikingly diverse 307.Strikingly high 308. Strongly associated 309.Strongly embedded 310.Strongly evident 311.Strongly important 312.Strongly linked 313. Strongly positive 314. Strongly resistant 315.Structurally similar 316.Sufficiently communicative 317.Sufficiently generic 318.Sufficiently high 319. Sufficiently large 320.Sufficiently stringent 321.Surprisingly little

322. Technically adept 323. Technologically assisted 324. Tightly interwoven 325. Totally different 326. Totally wrong 327.Truly inappropriate 328. Truly serious 329.Unambiguously attributable 330.Uncomfortably adversarial 331.Unduly bold 332.Unexpectedly high 333.Uniformly successful 334.Unreservedly negative 335. Virtually unknown 336.Well known 337. Widely accepted 338. Widely applicable 339. Widely discussed 340. Widely marketable 341.Widely spoken 342. Widely used

ADVERB + VERB

- 1. Actively encourage
- 2. Actively engage
- 3. Actively impact
- 4. Actively involved
- 5. Actively select
- 6. Actively transform
- 7. Actually do
- 8. Additionally propose
- 9. Additionally suggest
- 10. Adversely impact
- 11. Always change
- 12. Appropriately apply
- 13. Apparently err on
- 14. Arguably apply
- 15. Better understand
- 16. Briefly attempt
- 17. Briefly discuss
- 18. Briefly examine
- 19. Briefly review
- 20. Briefly summarize
- 20. Broadly speak
- 21. Droadly spea
- 22. Broadly think
- 23. Carefully analyzed
- 24. Carefully compile
- 25. Carefully controlled
- 26. Carefully define
- 27. Carefully design
- 28. Carefully edit
- 29. Certainly worth
- 30. Chronologically determine

- 31. Clearly align with
- 32. Clearly define
- 33. Clearly express
- 34. Clearly illustrate
- 35. Clearly indicate
- 36. Clearly intend
- 37. Clearly need
- 38. Closely aligned with
- 39. Closely examine
- 40. Closely follow
- 41. Cognitively engage
- 42. Collaboratively work
- 43. Commonly assume
- 44. Commonly believed
- 45. Commonly occur
- 46. Commonly used
- 47. Comprehensively integrate
- 48. Consistently apply
- 49. Consistently attend
- 50. Conspicuously dominated
- 51. Constantly alter
- 52. Constantly change
- 53. Constantly evolve
- 54. Continually change
- 55. Continually shift
- 56. Correctly classify
- 57. Correctly identify
- 58. Correctly use
- 59. Critically depend on
- 60. Critically evaluate

- 61. Currently occupy
- 62. Currently represent
- 63. Deeply steeped
- 64. Definitely worth
- 65. Deliberately ignore
- 66. Deliberately place
- 67. Deliberately try
- 68. Depend entirely (on)
- 69. Directly examine
- 70. Directly explain
- 71. Directly impact
- 72. Directly involved
- 73. Directly observe
- 74. Directly reflect
- 75. Easily describe
- 76. Easily forget
- 77. Easily guess
- 78. Effectively manage
- 79. Effectively teach
- 80. Elegantly challenge
- 81. Erroneously assume
- 82. Erroneously written
- 83. Exclusively focus
- 84. Explicitly address
- 85. Explicitly describe
- 86. Explicitly distinguish
- 87. Explicitly explain
- 88. Explicitly introduce
- 89. Explicitly represent
- 90. Explicitly say

94. Fiercely resist 95. Frequently cited 96. Frequently imply 97. Frequently mention 98. Frequently occur 99. Frequently use 100.Fully assess 101.Fully comprehend 102.Fully establish 103.Fully exploit 104.Fully focus 105.Fully understand 106.Fully warrant 107.Fundamentally alter 108. Further developed 109. Further discuss 110.Further reveal 111.Generally accepted 112.Generally believed 113.Generally considered 114.Generally illustrate 115.Generally seen 116.Generally view 117.Generally use 118.Gradually build up

119.Gradually decrease

120.Gradually learn

246

93. Extensively use

91. Extensively develop

92. Extensively research

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121.Gradually wear (thin) 122.Graphically represented 123.Greatly affect 124.Greatly favor 125.Greatly increase 126. Heavily concentrate 127. Highly correlate 128. Highly focus 129. Historically group 130. Holistically rate 131.Immediately follow 132.Inevitably call 133.Inevitably occur 134.Intimately connected 135.Intimately involved 136. Jointly code 137. Jointly develop 138.Knowingly repeat 139.Knowingly say 140.Largely determined 141.Largely dominated 142.Largely influence 143.Largely involve 144.Largely overlook 145.Likely to encounter 146.Immediately apply 147.Implicitly favour 148.Implicitly indicate 149.Mainly intend 150.Manually analyze 151.Manually choose 152.Marginally fail 153.Meaningfully contribute

154.Mistakenly assume 155.Naturally follow 156.Narrowly define 157.Narrowly focus 158.Naturally occur 159.Naturally transfer 160.Necessarily mean 161.Necessarily need 162.Normally distributed 163.Noticeably increase 164.Originally developed 165.Originally suggest 166.Overtly express 167. Overtly describe 168.Partially known 169.Partially reveal 170.Partly attributed 171.Partly contrast 172. Passively receive 173.Periodically check 174.Persistently misuse 175.Persuasively argue 176.Positively impact 177.Possibly depend on 178.Potentially allow 179.Potentially cause 180.Potentially impact 181.Potentially make 182.Predominantly determined 183.Predominantly focus 184.Primarily achieved 185.Primarily aim 186.Primarily intend

187.Primarily investigate 188.Purposely use 189.Quantitatively analyze 190.Quickly grasp 191. Quickly select 192.Randomly assign 193.Randomly divide 194.Randomly selected 195.Rapidly decline 196.Rarely fail 197.Rarely seen 198.Realistically maintain 199.Reasonably expect 200.Reasonably handle 201.Regularly attempt 202.Regularly repeat 203.Regularly use 204.Reliably predict 205.Reliably promote 206.Rigidly hold 207.Rigorously critique 208. Routinely embrace 209. Seriously confront 210. Seriously question 211.Seriously undermine 212.Severely weaken 213.Slightly alter 214.Slightly wary 215.Significantly affect 216.Significantly alter 217.Significantly differ 218. Significantly help 219.Significantly increase

220.Significantly predict 221.Similarly show 222.Simply correct 223.Simply repeat 224. Simply require 225.Slowly manage 226.Smoothly ascend 227.Socially constructed 228.Socially embedded 229. Specifically apply 230. Specifically examine 231. Strictly apply 232.Strongly believe 233.Strongly hope 234. Strongly imply 235.Strongly influence 236.Strongly resist 237. Strongly suggest 238.Strongly support 239.Subsequently inform 240.Substantially further 241.Successfully become 242.Successfully deal with 243.Successfully guess 244.Successfully incorporate 245.Systematically examine 246.Systematically use 247.Tacitly accept 248. Tentatively support 249. Thoroughly address 250. Thoroughly discuss 251. Thoughtfully design 252. Totally account

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253.Typically express 254.Typically use 255.Uncritically cite 256.Understandably wish 257.Unduly constrained 258.Uniquely associate 259.Universally insist 260.Unsurprisingly indicate 261.Usually occur 262.Vastly increase 263.View(something) favourably 264.Vigorously debated 265.Widely argued 266.Widely cited 267.Widely recognized 268. Widely referred 269. Widely seen 270. Widely shared 271. Widely used 272. Widely welcome

Appendix 2. Hedges List (Page 1/3)

Modals

1.	Can	3.	May	5.	Should
2.	Could	4.	Might	6.	Would

Verbs

1.	Advise	6. Correlate with	31. Insinuate	46. Recommend
2.	Advocate	7. Demonstrate (show)	32. Intend	47. Report
3.	Agree with	8. Display	33. Intimate	48. Reveal
4.	Allege	9. Doubt	34. Maintain	49. Seem
5.	Anticipate 2	0. Estimate	35. Mention	50. Show
6.	Appear 2	21. Expect	36. Observe	51. Signal
7.	Argue	2. Feel	37. Offer	52. Speculate
8.	Assert	23. Find	38. Opine	53. Suggest
9.	Assume	4. Guess	39. Postulate	54. Support
10.	Attempt	25. Hint	40. Predict	55. Suppose
11.	Believe	C6. Hope	41. Presume	56. Surmise
12.	Calculate	27. Hypothesize	42. Prone to	57. Suspect
13.	Conjecture 2	28. Implicate	43. Propose	58. Tend to
14.	Contend	9. Imply	44. Proposition	59. Think
15.	Consider	0. Indicate	45. Reckon	60. Try to

Appendix 2 continuing (page 2/3)

Adjectives

- 1. Advisable
- 2. Approximate
- 3. Conjunction with
- 4. (in) Consistent with
- 5. (in) harmony with
- 6. (in) line with

- Liable
 Likely
- 9. Partial
- 10. Plausible
- 11. Possible
- 12. Potential

14. Likely

Probable
 Prone to
 Reasonable
 Reported
 Rough
 Slight

- Subtle
 Suggested
 (in) tune with
 Uncertain
- 23. Unlikely

Adverbs

- Admittedly
 All but
 Almost
 Approximately
 Arguably
 Around
- 8. Averagely
- 9. Fairly

1. About

- 10. Frequently
- 11. Generally
- 12. Hardly
- 13. Largely

Mainly
 Mildly
 Moderately
 Mostly
 Near
 Nearly
 Not always
 Occasionally
 Often
 Partially
 Partly

26. Passably

Perhaps
 Possibly
 Potentially
 Predictably
 Presumably
 Primarily
 Probably
 Probably
 Quite
 Rarely
 Rather
 Reasonably
 Relatively
 Roughly

40. Scarcely
 41. Seemingly
 42. Slightly
 43. Sometimes
 44. Somewhat
 45. Subtly
 46. Supposedly
 47. Tolerably
 48. Usually
 49. Virtually

250

Appendix 2 continuing (page 3/3)

Quantifiers

- 1. (a) Few
- 2. Little
- 3. More or less
- 4. Most

- Much
 Not all
- 7. On occasion
- 8. Several

- 9. Some10. To a lesser
- 11. To a minor extent
- 12. To an extent

13. To some extent

Noun

- 1. Agreement with
- 2. Assertion
- 3. Assumption
- 4. Attempt
- 5. Belief
- 6. Chance
- 7. Claim

- B. Doubt
 9. Estimate
- 10. Expectation
- 11. Guidance
- 12. Hope
- 13. Implication
- 14. Intention

In accord with
 Majority
 Possibility
 Potential
 Prediction
 Presupposition
 Probability

- 22. Proposal
- 23. Proposition
- 24. Recommendation
- 25. Suggestion
- 26. Tendency

Appendix 3.

Boosters list (page 1/8)

Modal Boosters

1. Be to+infinitive

2. Have/has to

Must
 Need to

5. Will

Verbal Boosters

31. Prove 1. Ascertain 11. Corroborate 21. Evidence 2. 12. Convince 22. Flourish 32. Secure Assure 3. Attest 13. Demonstrate (prove) 23. Establish 33. Substantiate 4. Authenticate 14. Determine 24. Find 34. Testify 5. Back up 15. Deserve 25. Guarantee 35. Transfix 6. Bear out 16. Disprove 26. Invalidate 36. Uphold 7. Boost 17. Enhance 27. Justify 37. Validate 8. Conclude 18. Ensure 28. Make sure 38. Verify 9. Confirm 29. Oversimplify 39. Vindicate 19. Entrance 10. Confute 20. Essentialise 30. Perfect 40. Vouch

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Adjectival Boosters

1. Absolute 2. Absorbing 3. Abundant 4. Accurate Action-packed 5. Acute 6. 7. Adamant 8. Admirable 9. Adorable 10. Aesthetic 11. All-embracing 12. All-encompassing 13. All-inclusive 14. All-out 15. Alluring 16. Amazing 17. Ample 18. Angelic 19. Apodictic 20. Apparent 21. Appealing 22. Appreciable 23. Arresting 24. Assertive 25. Assiduous 26. Assured 27. Astonishing 28. Astounding 29. Attractive 30. Authoritative 31. Awesome

32. Awful 33. Axiomatic 34. Barefaced 35. Barnstorming 36. Beauteous 37. Bewitching 38. Blatant 39. Breathtaking 40. Burning 41. Captivating 42. Categorical 43. Ceaseless 44. Certain 45. Charming 46. Chief 47. (un)clear 48. Clear cut 49. Climactic 50. Compelling 51. Comprehensive 52. Compulsive 53. Compulsory 54. Conclusive 55. Concrete 56. Confident 57. Considerable 58. Consistent 59. Conspicuous 60. Constant 61. Consummate

62. Continual

63. Continuous 64. Convincing 65. Coruscating 66. Credible 67. Critical 68. Crucial 69. Curious 70. Dazzling 71. Decided 72. Decisive 73. Definite 74. Definitive 75. Demonstrable 76. Demonstrative 77. Determined 78. Direct 79. Distinct 80. Distinctive 81. Distinguished 82. Downright 83. Dramatic 84. Dreamv 85. Earnest 86. Effective 87. Effectual 88. Efficacious 89. Electrifying 90. Eloquent 91. Emphatic 92. Enchanting 93. Endless

94. Engaging 95. Engrossing 96. Enthralling 97. Enticing 98. Entire 99. Entrancing 100.Essential 101.Eternal 102.Everlasting 103.Evident 104.Exact 105.Excellent 106.Exceptional 107.Exhaustive 108.Exhilarating 109.Exigent 110.Explicit 111.Express 112.Exquisite 113.Extraordinary 114.Extreme 115.Eye-catching 116.Fantastic 117.Faithful 118.Far-reaching 119.Fascinating 120.Fated 121.Faultless 122.Fervent 123.Fine 124.Firm

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125.Flawless 126.Forceful 127.Frozen 128.Full-scale 129.Fundamental 130.Genuine 131.Glamorous 132.Glaring 133.Glittering 134.Glorious 135.Gorgeous 136.Glowing 137.Grand 138.Grave 139.Great 140.Gripping 141.Gross 142.Groundbreaking 143.Habitual 144.Harsh 145.Immaculate 146.Immeasurable 147.Immense 148.Impeccable 149.Imperative 150.Imposing 151.Impossible 152.Impressive 153.Incessant 154.In depth 155.Incontestable 156.Inconvertible

157.Incredible 158.Indicative 159.Indispensible 160.Indisputable 161.Indubitable 162.Ineffective 163.Inelastic 164.Inevitable 165.Infallible 166.Inflexible 167.Influential 168.Inimitable 169.Inordinate 170.Insistent 171.Intense 172.Intensive 173.Interminable 174.Intoxicating 175.Intriguing 176.Invariable 177.Inviolable 178.Ironclad 179.Irrefutable 180.Irresistible 181.Key 182.Large 183.Lavish 184.Life-claiming 185.Lush 186.Magnificent 187.Majestic 188.Major

189.Mandatory 190.Manifest 191.Marginal 192.Marked 193.Marvellous 194.Meaty 195.Mega 196.Mesmeric 197.Mesmerizing 198.Mighty 199.Miraculous 200.Momentous 201.Newsworthy 202.Notable 203.Noteworthy 204.Noticeable 205.Obligatory 206.Obvious 207.Open 208.Ostensible 209.Out-and-out 210.Outright 211.Outstanding 212.Palpable 213.Paramount 214.Perfect 215.Persistent 216.Persuasive 217.Pertinent 218.Picturesque 219.Pinpoint 220.Piquant

221.Plain 222.Pioneering 223.Pivotal 224.Plentiful 225.Poetic 226.Poignant 227.Positive 228.Potent 229.Powerful 230.Precise 231.Predestined 232.Predominant 233.Preeminent 234.Prepossessing 235.Pressing 236.Prodigious 237.Professed 238.Profound 239.Profuse 240.Prominent 241.Pronounced 242.Provocative 243.Pulsating 244.Radical 245.Rational 246.Reasonable 247.Reasoned 248.Regular 249.Reliable 250.Remarkable 251.Right 252.Rigid

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253.Rigorous 254.Riveting 255.Robust 256.Safe 257.Self-evident 258.Salient 259.Sedulous 260.Sensational 261.Serious 262.Set 263.Sharp 264.Significant 265.Shimmering 266.Singular 267.Sizeable 268.Solid 269.Spectacular 270.Spellbinding 271.Splendid 272.Staggering 273.Stark 274.Steely 275.Stiff 276.Stimulating

277.Stony 278.Strict 279.Striking 280.Strong 281.Stunning 282.Sublime 283.Successful 284.Superior 285.Sure 286.Tempting 287.Terrible 288.Terrific 289.Thorough 290.Thoroughgoing 291.Thumping 292.Total 293.Transfixing 294.Transparent 295.Tremendous 296.Ultimate 297.Unadulterated 298.Unalloyed 299.Unambiguous 300.Unanswerable

301.Unarguable 302.Unassailable 303.Unavoidable 304.Unbelievable 305.Unbridgeable 306.Uncanny 307.Unceasing 308.Unconditional 309.Uncontroversial 310.Undeniable 311.Undiluted 312.Undisputed 313.Undoubted 314.Unequivocal 315.Unerring 316.Unexpected 317.Unfaltering 318.Unforgettable 319.Unique 320.Ultra 321.Unmistakable 322.Unprecedented 323.Unqualified 324. Unquestionable

325.Unreserved 326.Untenable 327.Unstinting 328.Unvielding 329.Urgent 330.Vast 331.Vehement 332.Vigorous 333.Vital 334. Voluminous 335.Watertight 336.Weighty 337.Well founded 338. Well grounded 339.Well-know 340.Whirlwind 341.Wholehearted 342. Whopping 343.Wise 344.Wonderful 345.Wondrous 346.Word-perfect

Appendix 3 continuing (page 5/8)

Adverbial Boosters

1. Absolutely 2. Accurately 3. Adamantly 4. Admirably 5. Aesthetically Alluringly 6. 7. Always 8. Amazingly 9. Angelically 10. Apparently 11. Appealingly 12. Appreciably 13. Aright 14. Assertively 15. Assiduously 16. Assuredly 17. Astonishingly 18. Astoundingly 19. Attractively 20. Authoritatively 21. Awfully * 22. Axiomatically 23. Badly 24. Blatantly 25. Broadly 26. Categorically 27. Ceaselessly 28. Certainly 29. (un)clearly 30. Charmingly 31. Compellingly

32. Completely 33. Comprehensively 34. Compulsively 35. Conclusively 36. Confidently 37. Considerably 38. Consistently 39. Conspicuously 40. Constantly 41. Continually 42. Continuously 43. Convincingly 44. Credibly 45. Critically 46. Crucially 47. Curiously 48. Dazzlingly 49. Decidedly 50. Decisively 51. Definitely 52. Definitively 53. Demonstrably 54. Demonstratively 55. Deservedly 56. Determinedly 57. Devilishly 58. Directly 59. Distinctively 60. Distinctly 61. Doubtless 62. Downright

63. Dramatically 64. Earnestly 65. Easily 66. Effectively 67. Eloquently 68. Emphatically 69. Endlessly 70. Enticingly 71. Entirely 72. Especially 73. Essentially 74. Eternally 75. Ever 76. Everlastingly 77. Evermore 78. Evidently 79. Exactly 80. Exceedingly 81. Exceptionally 82. Exhaustively 83. Extensively 84. Extraordinarily 85. Extremely 86. Exceptional 87. Explicitly 88. Exquisitely 89. Fantastically 90. Fair 91. Faithfully 92. Faultlessly 93. Fervently

94. Finely 95. Firm 96. Flawlessly 97. Forcefully 98. Forever 99. Fully 100.Fundamentally 101.Genuinely 102.Glamorously 103.Glaringly 104.Glorious 105.Glowingly 106.Gorgeously 107.Gravely 108.Great 109.Grosslv 110.Habitually 111.Harshly 112.Heavily 113.Hefty 114.Highly 115.Immaculately 116.Immeasurably 117.Immensely 118.Importantly 119.Impeccably 120.Impossibly 121.Impressively 122.Incessantly 123.In perpetuity 124.Incontestably

Appendix 3 continuing (page 6/8)

125.Inconvertibly 126.Incredibly 127.Indeed 128.Indispensably 129.Indisputably 130.Indubitably 131.Inevitably 132.In fact 133.Infallibly 134.Inimitably 135.Inordinately 136.Insistently 137.Intensely 138.Intensively 139.Interminably 140.Intriguingly 141.Invariably 142.Irrefutably 143.Irresistibly 144.Justifiably 145.Lavishly 146.Magnificently 147.Majestically 148.Majorly 149.Manifestly 150.Marginally 151.Markedly 152.Marvellously 153.Mightily 154.Miraculously 155.Momentously 156.Necessarily

157.Never 158.No doubt 159.Notably 160.Noticeably 161.Obviously 162.Openly 163.Ostensibly 164.Outright 165.Outstandingly 166.Overly 167.Palpably 168.Particularly 169.Patently 170.Perfectly 171.Permanently 172.Perpetually 173.Persistently 174.Persuasively 175.Pertinently 176.Picturesquely 177.Piquantly 178.Plainly 179.Poetically 180.Poignantly 181.Point-blank 182.Pointedly 183.Positively 184.Potently 185.Precisely 186.Predominantly 187.Prodigiously 188.Professedly

189.Profusely 190.Profoundly 191.Prominent 192.Provocatively 193.Ouite 194.Radically 195.Really 196.Reasonably 197.Regularly 198.Reliably 199.Remarkably 200.Repeatedly 201.Rightfully 202.Rightly 203.Rigidly 204.Rigorously 205.Robustly 206.Safely 207.Securely 208.Sedulously 209. Seemingly 210.Significantly 211.Seriously 212.Solidly 213.Specifically 214.Spectacularly 215.Splendidly 216.Squarely 217.Starkly 218.Stiff 219.Strictly 220.Strikingly

221.Strongly 222.Stunningly 223.Sublimely 224.Successfully 225.Surely 226. Temptingly 227.Terribly 228.Terrifically 229. Thoroughly 230.Thumping 231.Totally 232.Transparently 233.Tremendously 234.Truly 235.Ultimately 236.Unambiguously 237.Unarguably 238.Unbelievably 239.Uncannily 240.Unceasingly 241.Unconditionally 242. Undeniably 243.Undoubtedly 244.Unequivocally 245.Unerringly 246.Unexpectedly 247.Unfailingly 248.Uniquely 249.Unlimited 250.Unmistakably 251.Unquestionably 252.Unreservedly

Appendix 3 continuing (page 7/8)

253.Urgently 254.Utterly 255.Unyieldingly 256.Vastly 257.Vehemently 258.Very 259.Vigorously260.Vitally261.Wholeheartedly

262.Wholly 263.Wisely

Quantifiers / Determiners

- 1. A considerable amount of
- 2. A good deal of
- 3. A great amount of
- 4. A great body of
- 5. A great deal of
- 6. A great many of
- 7. A great number of
- 8. A high number of
- 9. A huge amount of
- 10. A huge number of
- 11. A large amount of
- 12. A large body of
- 13. A large majority

- 14. A large number of
- 15. A lot of
- 16. A sizeable body of
- 17. A substantial amount of
- 18. A substantial number of
- 19. A vast number of
- 20. A very high level of
- 21. A very large number of
- 22. A wide body of
- 23. All
- 24. An established body of
- 25. Copious amount of
- 26. Enormous amount

- 27. Enormous size
- 28. Extensive amount of
- 29. Far more
- 30. Great majority
- 31. Greatest number of
- 32. Lots of
- 33. Many
- 34. Much greater
- 35. Much more
- 36. None of
- 37. Quite
- 38. Relatively large
- 39. So

- 40. So many
- 41. So much
- 42. To a great extent
- 43. To a large extent
- 44. Too
- 45. Too many
- 46. Too much
- 47. Unmanageable amount of
- 48. Vast majority
- 49. Very much

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Nouns

- Certitude 1.
- 2. Confirmation
- 3. Consistency
- Corroboration 4.
- 5. Demonstration
- Endorsement 6.
- 7. Eternity
- 8. Evidence
- 9. Exquisiteness
- All the time 1.
- 2. As a matter of fact
- 3. At all times
- 4. Beyond dispute
- Beyond doubt 5.
- Beyond question 6.
- Bound to happen 7.
- 8. By all accounts
- Each time 9.
- 10. Every time
- 11. For all future time
- 12. For all time
- 13. For ever and ever

10. Fact 11. Guarantee 12. Icebreaker 13. Impossibility 14. Invalidation 15. Inviolability 16. Justification 17. Key 18. Lifeblood

14. For good

16. For sure

23. In reality

26. In truth

- 19. Manifestation 20. Must 21. Necessity 22. Perpetuity 23. Plethora 24. Pre-eminence 25. Proof 26. Proof positive 27. Rigidity

Miscellaneous Boosters

- 15. For good and all 17. If truth be told 18. In all respects 19. In any case 20. In any event 21. In every respect 22. In every way 24. In the extreme 25. In the point of fact
- 27. To a fault 28. To a great extent 29. To a marked extent 30. To the fullest extent 31. To the maximum extent 32. To all appearances 33. On all occasions 34. On every occasions
- 35. One hundred percent
- 36. Out of ordinary
- 37. Out of this world
- 38. To perfection
- 39. Plain to see

- 28. Sureness
- 29. Testament
- 30. Testimony
- 31. Unexpectedness
- 32. Vehemence
- 33. Verification
- 34. Vindication
- 40. Sure to happen
- 41. The entire time
- 42. To the hilt
- 43. Until the end of time
- 44. Very inch
- 45. Without doubt
- 46. Without exception
- 47. Without fail
- 48. Without fault
- 49. Without question
- 50. Without reservation
- 51. Worthy of mention
- 52. Worthy of note

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- 1. DEMİR, C. " Frequency Effects in Lexical Acquisition: A Context of Grammar Class", *International Journal of Languages' Education and Teaching (IJLET)*, 2014, Volume 2, pp. 40-55
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- 6. YAĞIZ, O. & DEMIR, C. 1st The Self in Language Learning (SİLL), Adana, 17-19 September 2015 English "Lexical Collocations: A Comparative Study of Native and Non-native Scholars of English"