

Word Frequencies in the Written Texts of Learners of Turkish as a Foreign Language at CEFR Level A

AOBM A Düzeyinde Yabancı Dil Olarak Türkçe Öğrenen Öğrencilerin
Yazılı Metinlerindeki Sözcük Sıklıkları

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Abstract

This study aims to list the vocabulary items used by learners of Turkish as a foreign language at CEFR level A and their frequency values, and reveal the factors affecting the differences in the word frequency lists created based on certain demographic criteria. It also aims to compare the lists with the frequency lists of the course book used by the learners and the list of words frequently used by native speakers of Turkish. For these purposes, written texts of 123 students at Ankara University TÖMER were collected and digitized, and using all the words in those texts, a lemma list was created for this learner corpus. Then, separate lists were created to show how certain variables might affect the frequency of words used by learners. The results show that the most significant factor leading to differences in the lists is the level the students were studying at.

Keywords: Turkish as a Foreign Language, corpus linguistics, learner corpus, word frequency list

Öz

Bu çalışma Avrupa Ortak Başvuru Metni (AOBM) A düzeyinde Yabancı Dil Olarak Türkçe öğrenen öğrencilerin yazılı metinlerinde kullandıkları sözcükleri ve sözcük sıklıklarını listeleterek demografik değişkenlere göre oluşturulan gruplar arasındaki farkların sebeplerini ortaya çıkarmayı amaçlamaktadır. Ayrıca, bu sıklık listelerini öğrencilerin kullandıkları ders kitabının sıklık listesiyle ve anadili Türkçe olan konuşucuların kullandıkları sözcüklerin sıklık listesiyle de karşılaştırmayı hedeflemektedir. Bunun için Ankara Üniversitesi TÖMER’de öğrenim gören 123 öğrencinin yazılı metinleri toplanmış, bilgisayar ortamına aktarılmış ve öğrenci derlemine oluşturan bu metinlerdeki tüm sözcükler ile bir başsözcük listesi oluşturulmuştur. Daha sonra, belli değişkenlerin öğrencilerin sözcük sıklıklarını nasıl etkilediğini incelemek üzere ayrı listeler oluşturulmuştur. Sonuçlar farklı gruplardaki öğrencilerin listeleri arasındaki farklara sebep olan en önemli etmenin öğrencilerin dil düzeyi olduğunu göstermektedir.

Anahtar Kelimeler: Yabancı Dil Olarak Türkçe, derlem dilbilim, öğrenci derlemi, sözcük sıklık listesi

Introduction

Corpus can be defined as the gathering of written texts and spoken language data that can represent a language based on certain criteria (Burkhanov qtd. in Karaoğlu

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181), and the characteristics of a corpus can be listed as follows: Electronic/Computer readability, representativeness, balance and including language used in natural communication contexts (Gries and Berez 380; O'Donnell). As for different types of corpora, they can be classified into different groups such as balanced and non-balanced, synchronic and diachronic, written and spoken, or L1 and learner corpora. This study focuses on one of these types of corpora, namely *learner corpus*, which is the systematic gathering of written or spoken language of second language learners and storing the data electronically (Callies and Paquot 1). These corpora are of crucial importance in second language acquisition and foreign language teaching as they can provide the necessary learner output that can be analyzed by language software tools (Granger 4). Callies and Paquot (1) stated more specifically that learner corpora can be used for a number of purposes such as describing learner language, designing new teaching methods and tools that target learners' needs, creating new dictionaries, and in assessment and evaluation.

The linguistics methodology that is based on gathering natural texts called corpora electronically is called *corpus linguistics* (Granger 1). The number of studies in corpus linguistics in Turkish is low; the number of ones related to a learner corpus in Turkish is even lower. Although there are numerous learner corpora in many languages such as English, German, French, Italian, Spanish, Dutch, Korean, Chinese, Arabic, and the like, there is not one in Turkish. This study aims to contribute to one being constructed.

One important part of corpus studies is word frequency lists. Aksan and Yaldir define *word frequency* as the numerical value that shows how many times a linguistic item is used in a corpus (378). Frequency lists are lists that show how frequently a word is used in a corpus. To be able to make comparisons between the list of one corpus with the list of another, normalized frequency values need to be calculated as the frequency values on their own will not be reliable (Hoffmann et al. qtd in Aksan and Demirhan 89). The reason for this is because the corpora to be compared could be different in size and the frequencies of the words could be different only because of that. Thus, the frequency values have to be normalized; that is the values should be calculated using the formula below to see what they would be if the corpus were to be of one million words.

Frequency of the word in the corpus/the total number of words in the corpus*
1.000.000

The number of word frequency or vocabulary studies in Turkish are low and they mostly focus on Turkish as a native language (Göz; Pilav; Ölker; Gündoğdu). The number of word frequency studies in Turkish as a foreign language is also rather low. Similar to others in the field, Ercan's (7) study shows that among the 118 theses written between the years 1995 and 2013 regarding teaching Turkish to foreigners, 16.94% was on grammar teaching, 13.56% on materials design and/or evaluation, 9.32% on teaching methods and techniques, 7.63% on vocabulary teaching, 6.77% on difficulties faced while teaching and only 4.24% (5 out of 118

theses) on word frequency/preparing dictionaries. In addition, the few studies focusing on the language as a foreign language were either ones evaluating the language in course books (Karadağ and Kurudayıoğlu; Sevinç; Uslu; Akman; Doğan; Karadağ), or oral language performances (Çelebi). One recent study about word frequencies, for example, focused on the word frequencies used in seven course books used to teach Turkish as a foreign language (Şimşek and Gün). Similarly, in a doctoral thesis study, Bulundu aimed to identify the vocabulary items used in the nine course book series used to teach Turkish as a foreign language.

When studies focusing on Turkish as a foreign language are analyzed, it can be seen that only 17 graduate theses were written between the years 2006-2022. As examples for studies on word frequency among these, Göçen's doctoral dissertation on word frequencies of learners of Turkish as a foreign language and Çetin's master's thesis on the factors affecting the word frequencies in texts written by young learners of Turkish as a second language can be given. Another study focusing on the vocabulary used in B1 level course books and 21 students' written essays is Şimşek's article.

In the light of all these, it can be concluded that this study will shed light on a field that has rarely been focused on. The aims of this study are: To determine the vocabulary of learners of Turkish as a foreign language at CEFR level A; to reveal the factors that might influence how frequently learners use these words; to portray the differences in frequency values between the lists of words used by learners and the list of words in the *Hitit Yabancılar İçin Türkçe* course book used by the learners, and the list of the most frequently used words by native speakers of Turkish; to understand the factors leading to the differences in these lists.

Materials and Methods

Data and Participants

Written texts of 123 learners learning Turkish as a foreign language at the CEFR levels A1 and A2 at TÖMER in Ankara, Turkey were collected and analyzed for this study. These learners were students in four sub-levels, which can be seen in Table 1 below.

Table 1. The number of students in each level

CEFR Level	Number of students
A.1.1	45
A.1.2	32
A.2.1	22
A.2.2	24
Total	123

The written texts collected from learners were mostly homework assignments, and in two of the levels, there were also texts they wrote in exams held in class. The numbers of each can be seen in Table 2 below.

Table 2. The number of different types of texts written by learners in each level

CEFR Level	Number of homework texts	Number of texts written in exams	Total number of texts
A1.1	93		93
A1.2	62	31	93
A2.1	69		69
A2.2	67	23	90
Total	291	54	345

Participants

All participants filled out a form with certain demographic information. A summary of this information has been given below.

Table 3. Percentage of learners based on gender

Gender	Percentage of learners
Female	47.4%
Male	52.6%

Table 4. Percentages of learners based on age intervals

Age interval	Percentage of learners
13-20	29.3%
21-30	50%
31-40	12.9%
41-50	4.3%
Not indicated	3.5%

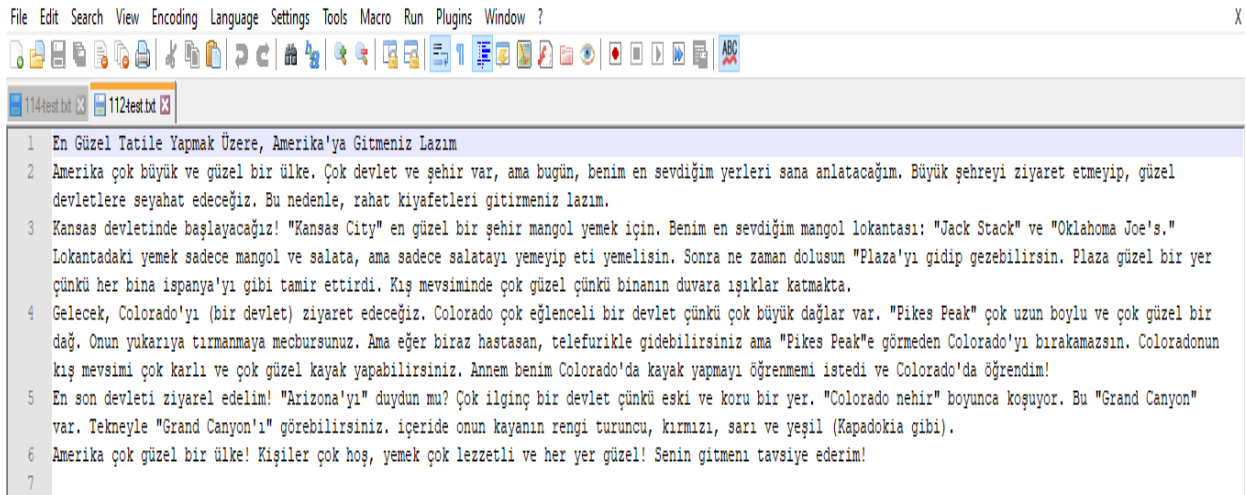
Other demographic information collected from the learners includes their nationalities and the native languages they speak. The participants came from 40 different countries; Palestine, Iraq, Russia and Turkmenistan being the ones from which the majority of learners came, 18.1%, 12%, 5.2% and 5.2% respectively. As for the native languages of the learners, 41.5% spoke Arabic, 9.8% Russian, 7.3% English, 4.9% Turkmen, 4.3% Persian, 4.3% French, and the remaining 27.9% 25 other languages.

Methods

In this study, a corpus-driven approach was adopted. This type of approach claims that corpora are the only resource for a researcher to form theses using corpus data (Tognini-Bonelli 84-85).

First of all, the demographic information collected from learners was transferred to an Excel file, during which learners' names were not used and each learner was given a number instead for anonymity. Each of the texts that were collected was also given a separate number such as 015-01, which means it is the first text written by Learner 15. Then, all the hand-written texts were transferred to a computer and were digitized using Notepad++. For character coding UTF-8 was chosen so that Turkish characters would be shown correctly. An example can be seen below.

Figure 1. A sample learner text digitalized using Notepad++



The next step was categorizing each text based on demographic information. To illustrate, a folder was created for all the texts written by women, another one was created for all the texts written by learners between the ages 21-30, and another one for texts written by learners at A.1.1 level. After this, a word list for all the data was created using AntConc. The next step was "a necessary step for computing the lexical density of texts" (Granger and Lefer 27): Lemmatization.

Every linguistic item with a space or a punctuation mark on both sides is called a *token* (Aksan and Yaldir 378). *Type*, on the other hand, is every token that is repeated in a corpus or words that are different than each other and form the corpus (Aksan and Aksan 87). Each type is a different word form; however, some of them are derived from the same root. The words that are the basic forms of those derived ones; that is, words that can be headwords in a dictionary are called lemmas (Aksan and Aksan 87). For this study, a lemma list was created on Excel, which was then loaded to AntConc as the lemma list to be used for the searches. A small part of the list can be seen in Figure 2 below.

Table 5. The 50 words most frequently used in the corpus

	Freq.	Word	Nor. Freq.		Freq.	Word	Nor. Freq.
1	1353	ve (and)	42417.78	26	190	en (most)	5956.67
2	1157	ben (I)	36273.00	27	176	istemek (to want)	5517.76
3	999	çok (very/many)	31319.56	28	172	yaşamak (to live)	5392.36
4	670	bir (one/a/an)	21005.11	29	168	gelmek (to come)	5266.95
5	614	gitmek (to go)	19249.46	30	167	aile (family)	5235.60
6	508	sonra (then/after)	15926.26	31	165	ad (name)	5172.90
7	502	o (he/she/it/that)	15738.16	32	163	şehir (city)	5110.20
8	492	var (there is)	15424.65	33	159	biz (we)	4984.79
9	429	yapmak (to do/to make)	13449.54	34	157	şey (thing)	4922.09
10	395	her (every)	12383.61	35	148	insan (human/person)	4639.93
11	330	yemek (food/meal)	10345.80	36	147	iki (two)	4608.58
12	297	ev (house)	9311.22	37	146	yaş (age)	4577.23
13	290	bu (this)	9091.76	38	144	tatil (holiday)	4514.53
14	287	güzel (beautiful/nice)	8997.71	39	143	büyük (big)	4483.18
15	275	gün (day)	8621.50	40	141	iyi (good)	4420.48
16	270	ama (but)	8464.75	41	138	daha (more)	4326.43
17	270	saat (hour)	8464.75	42	133	almak (to take/to get)	4169.67
18	260	için (for)	8151.24	43	128	ora (there)	4012.92
19	251	arkadaş (friend)	7869.08	44	125	deniz (sea)	3918.86
20	245	etmek (to do/to make)	7680.97	45	124	anne (mother)	3887.51

4140.73	4021.57	3693.88	3515.15	3485.36	3455.57	3366.20	3336.41	3306.62	3247.04	3127.89
zaman (time)	değil (not)	tatil (holiday)	en (most)	güzel (beautiful /nice)	çocuk (child)	biz (we)	nere (where)	yemek (food/ meal)	çıkılmak (to go out of)	arkadaş (friend)
139	135	124	118	117	116	113	112	111	109	105
30	31	32	33	34	35	36	37	38	39	40
13971.22	13822.28	12958.38	11439.13	8609.13	8400.61	8192.08	7536.72	7209.03	7119.66	6404.72
ben (I)	bu (this)	mi (question particle)	da (foo/also)	için (for)	var (existent)	o (she/ he/it)	yapılmak (to do/to make)	olmak (to be/to become)	ne (what)	ama (but)
469	464	435	384	289	282	275	253	242	239	215
5	6	7	8	9	10	11	12	13	14	15
5235.60	5172.90	5110.20	4984.79	4922.09	4639.93	4608.58	4577.23	4514.53	4483.18	4420.48
aile (family)	ad (name)	şehir (city)	biz (we)	şey (thing)	insan (person/ human)	iki (two)	yaş (age)	tatil (holiday)	büyük (big)	iyi (good)
167	165	163	159	157	148	147	146	144	143	141
30	31	32	33	34	35	36	37	38	39	40
19249.46	15926.26	15738.16	15424.65	13449.54	12383.61	10345.80	9311.22	9091.76	8997.71	8621.50
gitmek (to go)	sonra (then/late r/after)	o (he/she/it /that)	var (existent)	yapılmak (to do/to make)	her (every)	yemek (food/me al)	ev (house)	bu (this)	güzel (beautiful / nice)	gün (day)
614	508	502	492	429	395	330	297	290	287	275
5	6	7	8	9	10	11	12	13	14	15

3127.89	3127.89	3127.89	3098.10	3038.52	3008.73	3008.73	2919.36	2919.36	2800.20
bura (here)	televizyon (TV)	yıl (year)	evet (yes)	nasıl (how)	çünkü (because)	yer (place)	tamamlan ak (to complete)	yok (non- existent)	gibi (like)
105	105	105	104	102	101	101	98	98	94
41	42	43	44	45	46	47	48	49	50
6255.77	6106.82	5898.30	5719.56	5421.67	5123.77	5064.20	4915.25	4855.67	4736.51
ev (home)	gitmek (to go)	iyi (good)	sen (you)	sonra (then/late r/after)	gün (day)	istemek (to want)	daha (more)	saat (hour)	siz (plural you)
210	205	198	192	182	172	170	165	163	159
16	17	18	19	20	21	22	23	24	25
4326.43	4169.67	4012.92	3918.86	3887.51	3793.46	3762.11	3417.25	3229.14	3135.09
daha (more)	almak (to take/to get)	ora (there)	deniz (sea)	anne (mother)	çalışmak (to study /to work)	yer (place)	hafta (week)	kardeş (sibling)	hayat (life)
138	133	128	125	124	121	120	109	103	100
41	42	43	44	45	46	47	48	49	50
8464.75	8464.75	8151.24	7869.08	7680.97	7430.17	7242.06	6646.39	6615.04	6207.48
ama (but)	saat (hour)	için (for)	arkadaş (friend)	etmek (to do/to make)	olmak (to be/to become)	çünkü (because)	zaman (time)	yemek (to eat)	sevmek (to love)
270	270	260	251	245	237	231	212	211	198
16	17	18	19	20	21	22	23	24	25

* The list was created by adding the frequency values of words in the A1 and A2 level books listed in Göçen's doctoral dissertation (2149-2150).

It can be observed that 31 out of these 50 words are the same in the two lists. However, there are certain differences in the frequencies they were used at. Most of these differences between these two lists stem from the fact that the learner corpus includes texts written as answers to prompts related to basic topics such as family, daily activities, holidays, and the like. This is why the use of the pronouns “I” (nor.freq.: 36273) and “we” (nor.freq.: 4984) is more frequent in this list than in the course book (nor. freq.s: 13971 and 3366 respectively). Also, verbs such as to do, to make, to go, to eat, to want, to come, and to study are all used more frequently in the learner texts to explain what they do in a day, on holidays, and the like. In the course book, on the other hand, there are dialogues; thus, question words such as “ne”, “nere”, nasıl”, the question particle “mi”, the pronouns “sen” and “siz” (you), and responses such as “evet” (yes) are used numerous times in addition to verbs such as “tamamla” (to complete) that are used in instructions. None of these appears in the list of the most frequent fifty words used by the learners.

As mentioned before, the most frequently used words by the learners are mostly similar to the ones used by native speakers of Turkish too. Below in Table 7 are the two lists.

Table 7. The 50 words most frequently used in the corpus and TNC (Turkish National Corpus)**

Learner Corpus	TNC**	
	Nor.Freq.	Word
	3574.90	yer (place)
	3518.62	bul (to find)
	3497.89	iç (inside; to drink)
	3456.46	ama (but/ yet/still)
	27494.67	bir (a/an)
	25729.96	ol (to be/ become)
	23115.43	ve (and)
	19396.08	bu (this)
	14021.46	1
	13121.51	2
	11788.18	3
	9891.42	4
	5956.67	5
	5517.76	6
	5392.36	7
	5266.95	8
	190	9
	176	10
	172	11
	168	12
	26	13
	27	14
	28	15
	29	16
	42417.78	17
	36273.00	18
	31319.56	19
	21005.11	20
	ve (and)	21
	ben (I)	22
	Çok (very /many)	23
	bir (one/ a/an)	24
	1353	25
	1157	26
	999	27
	670	28
	1	29
	2	30
	3	31
	4	32
	5	33
	6	34
	7	35
	8	36
	9	37
	10	38
	11	39
	12	40
	13	41
	14	42
	15	43
	16	44
	17	45
	18	46
	19	47
	20	48
	21	49
	22	50

3150.30	3152.56	3288.41	3037.06	2998.12	3077.30	2917.07	3035.73	2934.64	2945.94	2894.84
zaman (time)	her (each/ every)	sey (thing)	kadar (until, as much as)	ara(break /distance to search)	git (to go)	en (most; width)	yıl (year)	değil (be not)	çalış (to work)	iste (to want)
160656	160771	167699	154881	152895	156933	148762	154813	149658	150234	147628
30	31	32	33	34	35	36	37	38	39	40
17288.64	10028.49	9648.86	7023.78	6121.91	6306.49	6207.62	5598.07	5533.81	5131.65	4633.57
da (too/ also)	et (to do/ to make; meal)	o (she/he/ it)	yap (to do/to make)	al (to take/get)	de (to say)	ben (I, me)	gel (to come)	için (for)	çok (very; much/man y/a lot of)	ver (to give)
881669	511423	492063	358192	312199	321612	316570	285485	282208	261699	236298
5	6	7	8	9	10	11	12	13	14	15
5235.60	5172.90	5110.20	4984.79	4922.09	4639.93	4608.58	4577.23	4514.53	4483.18	4420.48
aile (family)	ad (name)	şehir (city)	biz (we)	şey (thing)	insan (person/ human)	iki (two)	yaş (age)	tatil (holiday)	büyük (big)	iyi (good)
167	165	163	159	157	148	147	146	144	143	141
30	31	32	33	34	35	36	37	38	39	40
19249.46	15926.26	15738.16	15424.65	13449.54	12383.61	10345.80	9311.22	9091.76	8997.71	8621.50
gitmek (to go)	sonra (then/lat er/after)	o (he/she/ it/that)	var (existent)	yapmak (to do/to make)	her (every)	yemek (food/ meal)	ev (house)	bu (this)	güzel (beautiful/ nice)	gün (day)
614	508	502	492	429	395	330	297	290	287	275
5	6	7	8	9	10	11	12	13	14	15

2802.58	2862.99	2810.50	2682.04	2755.49	2629.04	2637.64	2439.53	2488.13	2389.04
geç (to pass; late)	bil (to know)	biz (we/us)	gün (day)	insan (human)	anla (to understand)	ya (either)	el (hand)	ki (who/which-conjunction)	kal (to stray/remain)
142923	146004	143327	136776	140522	134073	134512	124409	126887	121834
41	42	43	44	45	46	47	48	49	50
4774.57	4463.16	4543.74	4236.89	4283.29	4413.02	4143.71	3887.03	3968.64	3750.20
ne (what)	daha (more)	gibi (like)	gör (to see)	kendi (self)	mi (question particle)	var (existent; to arrive at)	çık (to go out of)	ile (with/together)	sonra (after/later)
243489	227608	231717	216069	218435	225051	211317	198227	202389	191249
16	17	18	19	20	21	22	23	24	25
4326.43	4169.67	4012.92	3918.86	3887.51	3793.46	3762.11	3417.25	3229.14	3135.09
daha (more)	almak (to take/to get)	ora (there)	deniz (sea)	anne (mother)	çalışmak (to study/to)	yer (place)	hafta (week)	kardeş (sibling)	hayat (life)
138	133	128	125	124	121	120	109	103	100
41	42	43	44	45	46	47	48	49	50
8464.75	8464.75	8151.24	7869.08	7680.97	7430.17	7242.06	6646.39	6615.04	6207.48
ama (but)	saat (hour)	için (for)	arkadaş (friend)	etmek (to do/to make)	olmak (to be/to become)	çünkü (because)	zaman (time)	yemek (to eat)	sevmek (to love)
270	270	260	251	245	237	231	212	211	198
16	17	18	19	20	21	22	23	24	25

*The list was taken from Aksan et al.

To identify any statistical differences between the two corpora the Mann Whitney U test was used and the results were shown in Table 8 below.

Table 8. The results of the statistical analysis on the learner corpus and TNC

	Count	Mean	Standard Deviation	Minimum	Maximum	Median	U value	Sig.
Group 1	27	7410,86	7383,06	2682,04	27494,67	4143,71	191,000	,003*
Group 2	27	12096,81	10214,19	3762,11	42417,78	8151,24		

* $p < 0.05$

As there are 27 words common in the two lists, the comparison was done using the frequency values of these words only. The mean and median of the normalized frequency values in TNC were higher than the ones of the learner corpus. In addition, there is a statistically significant difference between the normalized frequency values belonging to the two corpora ($p > 0.05$). This indicates that native speakers of Turkish use these words at significantly higher frequency values than the learners of Turkish as a foreign language at CEFR levels A1 and A2.

As mentioned before, among the 50 most frequently used words by the learners of Turkish and native speakers, 27 are the same. However, how frequently these 27 words were used differed. To illustrate, the conjunctions “ve” (and) and “ama” (but) seem to be used more frequently (nor.freq.: 42417, 8464 respectively) by the A1 level learners of Turkish compared to native speakers (nor.freq.: 23115, 3456 respectively). The reason for this could be that at this level of basic proficiency, the number of conjunctions learners learn and can use is limited and they prefer to use the first ones they learn more frequently than they are used by the native speakers of the language. Similarly, it can be seen in Corefl Learner Corpus, learner corpus of 530,392 words (Lozano, Díaz-Negrillo & Callies, 2020) that L2 learners of English at the CEFR levels A1 and A2 used the word “and” frequently (nor.freq.: 50361 at A1 and 44870 at A2). In the same corpus, it can be seen that the same groups of learners used the word “but” frequently as well (nor.freq.: 7309 at A1 and 9391 at A2). When these results are compared to the results from the BNC (British National Corpus), a corpus of texts in English written by native speakers of the language, it can be observed that the use of the conjunctions “and” and “but” by native speakers of English is less frequent than learners of English at low CEFR levels (nor.freq.: 23471 and 3996 respectively). All these results seem to be similar to the ones obtained from the learner corpus created for this study and TNC.

Another difference in frequency values related to the proficiency level of learners is the use of the pronouns “ben” (I) and “biz” (we). Learners used these more frequently (nor.freq.: 36273, 4984 respectively) than native speakers (nor.freq.: 6207, 2810 respectively) probably because they had limited vocabulary to be able to give information about themselves, and some of the questions they were supposed to answer in the texts they wrote asked them to do so. The normalized

38461.54	34798.53	32051.28	21978.02	17399.27	17399.27	13736.26	13736.26	13278.39	12820.51	10531.14
Ve	Çok	Ben	Bir	Gitmek	Sonra	Güzel	Yapmak	Saat	Yemek	Ev
84	76	70	48	38	38	30	30	29	28	23
51300.19	37502.21	28657.35	20166.28	18397.31	16451.44	14682.47	12736.60	12382.81	12029.01	11852.11
ve	çok	ben	gitmek	bir	var	o	sonra	ama	güzel	her
290	212	162	114	104	93	83	72	70	68	67
40651.50	38699.69	32238.52	22142.95	19114.28	15277.96	15076.05	14604.93	13864.58	13797.28	10095.57
ben	ve	çok	bir	gitmek	sonra	var	her	yapmak	o	bu
604	575	479	329	284	227	224	217	206	205	150
44660.68	40169.66	23577.84	22579.84	21581.84	20209.58	20084.83	15593.81	13972.06	11601.80	10728.54
ve	ben	o	çok	bir	sonra	Gitmek	var	yapmak	saat	her
358	322	189	181	173	162	161	125	112	93	86
1	2	3	4	5	6	7	8	9	10	11

9157.51	9157.51	8241.76	8241.76	8241.76	8241.76	7783.88	6868.13	6868.13	6868.13	6410.26	6410.26
Gün	Yaşamak	Arkadaş	etmek	var	çünkü	her	tatıl	şehir	bu	gelmek	
20	20	18	18	18	17	15	15	15	14	14	
10967.63	9729.35	9552.45	9375.55	9198.66	9021.76	8844.86	8844.86	8491.07	8314.17	7783.48	
yapmak	etmek	gün	daha	yemek	olmak	sevmek	çünkü	arkadaş	zaman	ev	
62	55	54	53	52	51	50	50	48	47	44	
9960.96	9893.66	9489.84	8614.89	8480.28	8076.46	7941.85	7874.55	7538.03	7268.81	7134.20	
yemek	ev	gün	için	ama	saat	arkadaş	etmek	güzel	olmak	çünkü	
148	147	141	128	126	120	118	117	112	108	106	
10479.04	10104.79	8982.04	8358.28	8358.28	7984.03	7609.78	7485.03	7485.03	6487.03	6487.03	
yemek	ev	yaş	ad	arkadaş	ye	güzel	bu	için	etmek	sevmek	
84	81	72	67	67	64	61	60	60	52	52	
12	13	14	15	16	17	18	19	20	21	22	

6410.26	6410.26	6410.26	5952.38	5952.38	5952.38	5952.38	5952.38	5494.51	5494.51	5036.63	5036.63
kalmak (to stay)	mutlu	ye	ad	en	olmak	on	ama	biz	istemek	okumak (to read)	
14	14	14	13	13	13	13	12	12	11	11	
7429.68	7075.89	6722.09	6191.40	6014.51	6014.51	5660.71	5660.71	5130.02	4953.12	4599.33	
istemek	için	bu	aile	en	gelmek	saat	şehir	biz	ye	almak	
42	40	38	35	34	34	32	32	29	28	26	
6730.38	6326.56	5653.52	5653.52	5586.22	5451.61	5317.00	5317.00	5249.70	5182.39	5047.79	
zaman	ye	insan	sevmek	en	istemek	biz	şey	yaşamak	tatil	gelmek	
100	94	84	84	83	81	79	79	78	77	75	
6362.28	6237.52	6237.52	6237.52	6237.52	5988.02	5988.02	5364.27	5364.27	5239.52	5114.77	
sey	ama	en	olmak	zaman	iki	kardeş	aile	almak	gün	yaşamak	
51	50	50	50	50	48	48	43	43	42	41	
23	24	25	26	27	28	29	30	31	32	33	

5036.63	5036.63	5036.63	5036.63	5036.63	4578.75	4578.75	4578.75	4578.75	4578.75	4578.75	4578.75	4578.75	4578.75	4578.75
Televizyon (TV)	uzun (long/tall)	yaş	çocuk	büyük	ders	insan	için	o	sabah (morning)	zaman				
11	11	11	11	10	10	10	10	10	10	10	10	10	10	10
4599.33	4422.43	4245.53	4245.53	4068.64	4068.64	4068.64	4068.64	4068.64	3891.74	3891.74				
iki	önce	yer	çalışmak	bazen (sometimes)	insan	iyi	ora	çocuk (child)	yaz (summer)	yaşamak				
26	25	24	24	23	23	23	23	23	22	22				
4913.18	4845.87	4778.57	4576.66	4576.66	4576.66	4240.14	4105.53	4038.23	4038.23	4038.23				
iyi	büyük	şehir	ad	aile	ora	yer	deniz	anne	iki	kahvaltı				
73	72	71	68	68	68	63	61	60	60	60				
5114.77	4865.27	4865.27	4615.77	4491.02	4491.02	4491.02	4366.27	4116.77	3992.02	3992.02				
öğrenci	gelmek	çünkü	büyük	anne (mother)	biz	istemek	deniz	akşam	on (ten)	tatil				
41	39	39	37	36	36	36	35	33	32	32				
34	35	36	37	38	39	40	41	42	43	44				

4578.75	4120.88	4120.88	4120.88	4120.88	4120.88	3663.00
çay (tea)	aille	gezemek (wander)	sevmek	çalışmak	almak	
10	9	9	9	9	8	
3714.84	3714.84	3714.84	3537.94	3361.05	3184.15	
hava (weather)	lazım (necessary)	mutlu (happy)	hafta	deniz	akşam	
21	21	21	20	19	18	
3970.92	3903.62	3769.01	3769.01	3634.41	3634.41	
çalışmak	spor (sport)	almak	yıl (year)	hafta (week)	hayat (life)	
59	58	56	56	54	54	
3867.27	3867.27	3742.51	3742.51	3617.76	3493.01	
dönmek (to return)	iyi	hafta	şehir	çalışmak	içmek (to drink)	
31	31	30	30	29	28	
45	46	47	48	49	50	

The Kruskal Wallis test was applied to detect if there is a significant difference between the normalized frequency values of the words used by students in different age groups. The results of this analysis can be seen Table 10 below.

Table 10. The results of the statistical analysis done on the frequency lists of words used by learners of different age groups

Age	Count	Mean	Standard Deviation	Minimum	Maximum	Median	Chi-Square	Sig.
Below 20	50	9413,67	8624,07	3493,01	44660,68	6237,52		
21-30	50	9215,24	8319,32	3634,41	40651,50	5653,52	,192	,979
31-40	50	9372,01	8899,10	3184,15	51300,19	6456,75		
Above 41	50	9029,30	7747,27	3663,00	38461,54	6181,32		

The mean of the normalized frequency values of words used by students under the age of 20 is higher than that of the other age groups. The median is the highest in the group of students between the ages 31-40. There is no significant difference between the normalized frequency values of the words used by different age groups ($p>0.05$).

4812.01	4683.69	4491.21	4427.05	4427.05	4427.05	4427.05	4427.05	4362.89	4362.89	4298.73
yasamak	almak	gelmek	biz	istemek	iyi	tatil	şehir	iki	çalışmak	aile
75	73	70	69	69	69	69	69	68	68	67
30	31	32	33	34	35	36	37	38	39	40
20274.61	19633.00	16360.84	14179.39	13922.75	12575.39	11612.99	9816.50	9559.86	9239.06	8789.94
gitmek	sonra	o	yapmak	var	her	yemek	saat	ev	gün	bu
316	306	255	221	217	196	181	153	149	144	137
5	6	7	8	9	10	11	12	13	14	15
5762.98	5701.67	5517.75	5272.52	5272.52	4904.67	4843.36	4782.05	4720.74	4598.12	4414.20
şehir	ye	biz	daha	insan	ad	iki	büyük	anne	tatil	iyi
94	93	90	86	86	80	79	78	77	75	72
30	31	32	33	34	35	36	37	38	39	40
18269.88	16859.79	15143.15	12752.13	12384.28	12200.36	9502.79	9380.17	9134.94	9073.63	8215.31
gitmek	var	o	yapmak	sonra	her	güzel	bu	yemek	ev	ama
298	275	247	208	202	199	155	153	149	148	134
5	6	7	8	9	10	11	12	13	14	15

4234.57	4170.41	4042.09	3977.93	3977.93	3977.93	3849.61	3785.45	3785.45	3336.33
yer	büyük	okumak	hafta	insan	ora	son	deniz	lazım	daha
66	65	63	62	62	62	60	59	59	52
41	42	43	44	45	46	47	48	49	50
8725.78	8469.14	8212.50	7699.22	7570.90	7442.58	7057.62	7057.62	6865.14	5902.73
ama	güzel	için	arkadaş	ye	etmek	olmak	zaman	çünkü	en
136	132	128	120	118	116	110	110	107	92
16	17	18	19	20	21	22	23	24	25
4352.89	4107.66	4046.35	4046.35	3678.50	3433.27	3310.65	3310.65	3310.65	3249.34
yaş	şey	deniz	ora	almak	mutlu	akşam	hayat	yer	kardeş
71	67	66	66	60	56	54	54	54	53
41	42	43	44	45	46	47	48	49	50
8092.70	8031.39	8031.39	7908.77	7786.16	7602.23	7173.07	6866.53	6559.99	6253.45
için	arkadaş	gün	etmek	olmak	çünkü	saat	sevmek	istemek	zaman
132	131	131	129	127	124	117	112	107	102
16	17	18	19	20	21	22	23	24	25

The Mann Whitney U test was used to find if there is a significant difference between the normalized frequency values of the words used by students from each gender. The results are shown in Table 12 below.

Table 12. The results of the statistical analysis done on the frequency values of the words used by female and male learners

	Count	Mean	Standard Deviation	Minimum	Maximum	Median	U value	Sig.
Female	50	9061,37	7997,65	3249,34	41383,12	6192,14	1207,000	,767
Male	50	9276,27	8537,03	3336,33	43500,58	5838,57		

The mean of the normalized frequency values of the words used by male students is higher and the median of the normalized frequency values of the words used by female students is higher. There is no significant difference between the normalized frequency values of the words used by the two groups ($p>0.05$).

When the lists are analyzed descriptively, it can be seen that in these two lists, the first five most frequently used words are the exact same words in the same order. The next five words are also the same words, only in a different order. However, in the rest of the list there are a few significant differences. To illustrate, the word “saat” (hour) is the twelfth most frequently used word (nor.freq.: 9816) in texts written by men whereas it is the twenty-second (nor.freq.: 7173) in texts written by women. Similarly, the word “yaş” (age) is the twenty-ninth (nor.freq.: 4812) most frequently used word in the texts written by men; however, it is the forty-first (nor.freq.: 4352) most frequent word in the texts written by women. Here again, rather than the gender, the level of the students seems to be an important factor. Both these words are required to be used to answer the questions assigned in the A.1.1 level, and among the forty-five A.1.1 students, twenty-seven were men. Another such example is the word “daha” (more) which is listed as the thirty-third (nor.freq.: 5272) most frequent word used by women and the fiftieth (nor.freq.: 3336) by men. The reason for this difference seems to lie in the fact that there were 19 women and 12 men in the A.1.2 level in which one of the prompts asked students to compare two cities, which requires the use of the comparative adverb.

Finally, the lists based on the 4 different levels learners were studying at can be seen below in Table 13.

Table 13. Frequency lists based on the level the learners were studying

	A.1.1		A.1.2		A.2.1		A.2.2	
	Word	Nor. Freq.	Word	Nor. Freq.	Word	Nor. Freq.	Word	Nor. Freq.
1	ben	60963.11	ve	47325.89	Ve	49652.96	ve	41961.62
	Freq.		Freq.		Freq.		Freq.	
	357		369		279		492	

35650.32	21577.83	20042.64	16801.71	14925.37	14925.37	14754.80	13816.63	13304.90	11343.28	10916.84
çok	bir	ben	var	her	için	bu	yapmak	yemek	en	çünkü
418	253	235	197	175	175	173	162	156	133	128
38796.94	33279.94	31322.30	28474.82	25271.40	21712.05	18330.66	15661.15	15305.21	14237.41	14059.44
Ben	sonra	Bir	Çok	gitmek	0	yapmak	Her	etmek	gün	arkadaş
218	187	176	160	142	122	103	88	86	80	79
44632.55	44504.30	28857.25	18981.66	16801.33	14364.50	14107.99	11799.41	10901.63	10388.61	10260.36
çok	ben	gitmek	var	bir	güzel	sonra	ev	ama	yemek	her
348	347	225	148	131	112	110	92	85	81	80
36372.95	29883.88	22711.75	21004.10	20491.80	18784.15	17418.03	17076.50	15198.09	15198.09	12978.14
ve	0	saat	gitmek	sonra	bir	ev	yaş	ad	yapmak	var
213	175	133	123	120	110	102	100	89	89	76
2	3	4	5	6	7	8	9	10	11	12

10660.98	10575.69	10149.25	9296.38	8443.50	8102.35	7846.48	7761.19	7590.62	7164.18	7164.18
o	gitmek	güzel	olmak	ama	şey	gün	sonra	lazım	etmek	insan
125	124	119	109	99	95	92	91	89	84	84
13169.60	12635.70	12279.77	10144.15	9610.25	9610.25	9432.28	9076.35	8364.48	8364.48	7830.57
olmak	var	ev	bu (this)	para (money)	zaman	ama	demek (to say)	istemek	yemek	almak
74	71	69	57	54	54	53	51	47	47	44
10260.36	10003.85	9619.08	8977.81	8977.81	8721.30	8336.54	7310.50	7182.25	7054.00	6797.49
o	gün	yapmak	biz	şehir	arkadaş	deniz	ora	saat	çünkü	aile
80	78	75	70	70	68	65	57	56	55	53
12465.85	9733.61	9221.31	8879.78	8538.25	8196.72	8025.96	7855.19	7855.19	7855.19	7172.13
çok	kardeş	arkadaş	her	ye	öğrenci (student)	iki	kahvaltı (breakfast)	yemek	çalışmak	anne
73	57	54	52	50	48	47	46	46	46	42
13	14	15	16	17	18	19	20	21	22	23

7164.18	7078.89	6993.60	6823.03	6737.74	6737.74	6226.01	6140.72	6055.44	5884.86	5799.57
istemek	sevmek	yer	ye	zaman	şehir	tatil	iyi	yaşamak	daha	sağlıklı (healthy)
84	83	82	80	79	79	73	72	71	69	68
7830.57	7830.57	7652.61	7474.64	7296.67	6762.77	6762.77	6584.80	6406.83	6050.90	5872.93
saat	sey	gelmek	için	sevmek	vermek (to give)	yardımcı (helpful/friendly)	güzel	hafta	çünkü	biz
44	44	43	42	41	38	38	37	36	34	33
6797.49	6412.72	6284.47	6284.47	6284.47	6156.21	6027.96	6027.96	5771.45	5643.20	5643.20
ye	tatil	anne	daha	gelmek	büyük	sevmek	zaman	yaşamak	bu	otel (hotel)
53	50	49	49	49	48	47	47	45	44	44
6830.60	6830.60	6830.60	6659.84	6318.31	6147.54	5976.78	5976.78	5635.25	5635.25	5464.48
kız (girl)	on	yaşamak	okumak	baba	öğrenmek (to learn)	ders	sabah	aile	ama	etmek
40	40	40	39	37	36	35	35	33	33	32
24	25	26	27	28	29	30	31	32	33	34

5202.56	5117.27	4861.41	4776.12	4776.12	4434.97	4349.68	4264.39	4264.39	4179.10	4008.53
ülke (country)	hayat	gelmek	büyük	önemli (important ↑)	ora	spor	aile	arkadaş	ıçmek	bayram (holiday)
61	60	57	56	56	52	51	50	50	49	47
5694.96	5517.00	5517.00	4983.09	4449.19	4271.22	4271.22	4271.22	4271.22	4271.22	4093.26
son	aile	dönmek	ye	yok (there isn' t)	iki	insan	iyi	kahvaltı	kız	iş (job/work)
32	31	31	28	25	24	24	24	24	24	23
5514.94	5514.94	5386.69	5130.18	4488.91	4488.91	4488.91	4360.65	4360.65	4360.65	4360.65
etmek	olmak	kalmak (to stay)	hava	için	mutlu	yıl	iki	insan	yaz	önce
43	43	42	40	35	35	35	34	34	34	34
5464.48	4781.42	4781.42	4610.66	4439.89	4439.89	4439.89	4269.13	4269.13	4269.13	4269.13
zaman	dokuz (nine)	uyumak (to sleep)	sevmek	kalkmak (to get up)	oturmak (to sit)	ödev (homework)	almak	gün	uyanmak (to wake)	üniversite (university)
32	28	28	27	26	26	26	25	25	25	25
35	36	37	38	39	40	41	42	43	44	45

they do at what time in a day. Similarly, the words “sağlıklı” (healthy), “hayat” (life), “önemli” (important), “bayram” (religious/national holiday) and “mevsim” (season) used by the students in A.2.2 were used this frequently (nor.freq.: 5799, 5117, 4776, 4008, 3752 respectively) because the assignments in this level asked them to write about these specifically. The other reason why there are more differences in the lists is basically the difference between level of proficiency. For example, the conjunctions “çünkü” (because) and “ama” (but) are acquired later and thus are used more frequently by students in the higher levels. Another important difference in the lists is the use of the word “şey” (thing). This word can only be seen among the most frequent fifty words in A.2.1 (nor.freq: 7830) and A.2.2 (nor.freq.: 8102) again because this is acquired later. Actually, it is one of the most frequently used words by native speakers, especially in spoken language (nor.freq.: 3288 in TNC).

Discussion

As confirmed by Şimşek (167), the vocabulary studies in the field of teaching Turkish as a foreign language mostly focus on the vocabulary used in printed materials. Nevertheless, the vocabulary used by the learners of the language should also be considered. For this reason, this study aims at listing the words used by learners with their frequency values and comparing the results with the vocabulary used in the course book the learners used and the TNC. In addition, the reasons for the differences in the frequency lists of learners in different categories were also tried to be accounted for. For these purposes, using the texts written by 123 A1 and A2 level learners of Turkish as a foreign language, a small-scale learner corpus of 2903 word types and 31897 word tokens in total was constructed. Based on this corpus, the list of the most frequently used words by learners was made. This list was then compared to the list of the most frequently used words in the course book the learners used to learn the language. Some of the differences in these two lists were attributed to one being the list of words learners used to answer certain prompts, and one being the list of words used in a coursebook designed to teach a language and thus included dialogues and instructions, which could not be seen in a written learner corpus.

In addition, the word frequency list of the learner corpus was also compared to the most frequently used fifty words by the native speakers of Turkish based on the lists provided in the TNC. The differences between these two lists were mainly attributed to the difference between the proficiency level of the participants; one group being learners at A1 and A2 levels, the other being native speakers of the language. As for the statistical analysis, only between these two lists was there a statistically significant difference that shows that native speakers of Turkish and learners of Turkish as a foreign language at CEFR levels A1 and A2 use these words at significantly different frequencies. Some of the differences in these two lists were also in accordance with the results from an L2 English learner corpus Corefl and BNC.

Also, separate lists based on certain criteria such as age, gender, and proficiency level were created. Statistical analysis revealed that there was no significant difference between the normalized frequency values of the most frequently used 50 words in the lists created for each group of learners: learners at different ages, female vs male learners and learners at different proficiency levels. When these lists were analyzed descriptively, it was concluded that the main factors leading to differences in the words used or the frequency values of those words observed between students in different categories were the proficiency level of the learners and the writing tasks that were assigned to them.

As stated by Karatay (256), “the vocabulary needs of learners are different from those whose native language is Turkish”. Thus, studies such as this one will provide researchers, course book writers and teachers with the knowledge of which vocabulary items learners use at which level and how these differ from those used in the course books they use to learn the language, and from those used by native speakers. All these will indicate the needs of the learners; that is, what is lacking and on what more focus should be put in the curriculum. Using this information, curriculum designers could make changes in the curriculum, the syllabus, and the materials to meet those needs so that teachers could do so in the classroom when using those materials, and following those syllabi when teaching the language.

The limitations of this study were that the corpus was constructed using data collected at one single institution from students at the beginner levels only. It is believed that if this study is conducted at more institutions and with more students at higher proficiency levels, it will give a more thorough understanding of the vocabulary used by learners of Turkish as a foreign language, and how similar it is to that of native speakers. The results of such a study could also help to achieve the aims of constructing a Turkish learner corpus that will help learners as a resource during their studies. Utilizing such a corpus, teachers can adopt data-driven learning as a teaching methodology and design classroom activities using concordances that can be achieved through learner corpora and native speaker corpora. Through these, learners will have the opportunity to see sample uses of the target language by learners, and common mistakes made by learners, and to compare these to the language used by native speakers.

Such a learner corpus can also be a resource for a learner dictionary of Turkish, and for grade reader books in Turkish. Using such information as the active vocabulary and sentences used by learners at each different language level from the corpus, these resources could be divided into materials suitable for each CEFR level. To illustrate, a learner dictionary of Turkish at the CEFR level A and another one at the CEFR level B, or a grade reader book in Turkish for CEFR level B and another for CEFR level C could be prepared.

Works cited

- Akman, Tuba. *Ortaöğretim Dil Ve Edebiyat Kitaplarında Kelime Sıklığı Çalışması*. 2013. Necmettin Erbakan University, Master's thesis.
- Aksan, Yeşim, and Yılmaz Yaldır. "Türkçe Sözvarlığının Nicel Betimlemesi." 24. Ulusal Dilbilim Kurultayı, 17 May 2010, Ankara.
- Aksan, Mustafa, and Demirhan, Umut Ufuk. "Bakmak Eylemi ve Söylem İşlevleri: Eşdizimlilik Örüntülerinin Gösterdikleri." *Dil ve Edebiyat Dergisi*, vol. 14, no. 2, July 2017, pp. 85–107. ded.mersindilbilim.info/tr/download/article-file/414576.
- Aksan, Yeşim and Mustafa Aksan. "Türkçenin derlem-temelli sıklık sözlüğü: Temel ilkeler ve uygulama." *Uluslararası Sözlük Bilim Sempozyumu Bildiri Kitabı*, 2016.
- Aksan, Yesim, et al. *A Frequency Dictionary of Turkish: Core Vocabulary for Learners (Routledge Frequency Dictionaries)*. 1st ed., Routledge, 2016.
- The British National Corpus*, version 2 (BNC World). Distributed by Oxford University Computing Services on behalf of the BNC Consortium, 2001, <http://www.natcorp.ox.ac.uk>. Accessed 1 August 2022.
- Bulundu, Ahmet Cihan. *Türkçenin Yabancı Dil Olarak Öğretiminde Seviyelere Göre Öncelikli Söz Varlığı – Derlem Temelli Bir Uygulama*. 2022. İnönü University, Master's thesis.
- Callies, Marcus, and Magali Paquot. "Learner Corpus Research: An Interdisciplinary Field on the Move." *International Journal of Learner Corpus Research*, vol. 1, no.1, 2015, pp. 1-6.
- Çelebi, Hatice. *Extracting and Analyzing Impoliteness in Corpora: A Study Based on The British National Corpus and The Spoken Turkish Corpus*. 2012. Orta Doğu Teknik University, Master's thesis.
- Çetin, Sadık Ahmet. *Suriye Uyrıklı Ortaokul Öğrencilerinin Türkçe Yazılı Anlatımlarında Kelime Hazinesi*. 2017. Akdeniz University, Master's thesis.
- Doğan, Faruk. *Türkçe Dersi Ortaokul Öğrenci Çalışma Kitaplarındaki Etkinliklerin Söz Varlığı Üzerine bir Araştırma*. 2016. Siirt University, PhD dissertation.
- Ercan Güven, Aliye Nur. "Yabancılar Türkçe Öğretimi Üzerine Yapılmış Lisansüstü Tezlerin Çeşitli Değişkenler Açısından Analizi." *Türkçenin Eğitimi-Öğretimine Yönelik Çalışmalar*, edited by Mustafa Volkan Coşkun, et al., Pegem, 2015, pp. 2-12.
- Göçen, Gökçen. *Yabancılar için Hazırlanan Türkçe Ders Kitaplarındaki Söz Varlığı ile Türkçeyi Yabancı Dil Olarak Öğrenenlerin Yazılı Anlatımlarındaki Söz Varlığı*. 2016. Sakarya University, PhD dissertation.
- Göz, İlyas. *Yazılı Türkçenin Kelime Sıklığı Sözlüğü*. Türk Dil Kurumu Yayınları, 2003.
- Granger, Sylviane. "A Bird's Eye View of Learner Corpus Research." *Computer Learner Corpora, Second Language Acquisition and Foreign Language Teaching*, edited by

Sylviane Granger, Joseph Hung and Stephanie Petch-Tyson, Benjamins, 2002, pp. 3-33.

Granger, Sylviane, and Marie-Aude Lefer. "Corpus-based Translation and Interpreting Studies: A forward-looking Review." *Extending the Scope of Corpus-based Translation Studies. Bloomsbury Advances in Translation series*, edited by Sylviane Granger and Marie-Aude Lefer, Bloomsbury, 2022, pp. 13-41.

Gries, Stefan Th. and Berez, Andrea L. "Linguistic Annotation in/for Corpus Linguistics." *Handbook of Linguistic Annotation*, edited by Nancy Ide and James Pustejovsky, Springer, 2017, pp. 379-409.

Gündoğdu, Ayşe Eda. *Türk Çocuk Yazınında Söz Varlığı: Derlem Tabanlı bir Uygulama*. 2012. Mersin University, PhD dissertation.

Karadağ, Özay and Mehmet Kurudayıoğlu. "Türkçe Programına Göre Hazırlanmış İlköğretim Birinci Kademe Türkçe Ders Kitaplarının Kelime Hazinesi." XV. Ulusal Eğitim Bilimleri Kongresi, 13-15 September 2006, Muğla Üniversitesi, Muğla.

Karadağ, Özay. "Aynı Sınıf Düzeyi İçin Hazırlanan Türkçe Ders Kitaplarının Ortak Söz Varlığı Açısından Karşılaştırılması." *Ana Dili Eğitimi Dergisi*, vol. 7, no. 4, 2019, pp. 1130-1140.

Karaoğlu, Serdar. "Türkçe Çevrimiçi Derlemler Üzerine." *KMÜ Sosyal ve Ekonomik Araştırmalar Dergisi*, vol. 16, no. 1, 2014, pp. 181-188.

Karatay, Halit. "Türkçenin Yabancı Dil Olarak Öğretiminde Söz Varlığı ve Geliştirilmesi." *Türkçenin Yabancı Dil Olarak Öğretimi El Kitabı*, edited by Halit Karatay, Pegem Akademi, 2020, pp. 253-270.

Lozano, Cristobal, Ana Díaz-Negrillo and Marcus Callies. "Designing and Compiling a Learner Corpus of Written and Spoken Narratives: COREFL." *What's in a Narrative? Variation in Story-Telling at the Interface between Language and Literacy*, edited by Christiane Bongartz and Jacopo Torregrossa, Peter Lang, 2020, pp. 21-46.

O'Donnell, Matthew Brook. "Principles of corpus construction." University of Liverpool Corpus Linguistics Summer Institute, 2008, Lancaster.

Ölker, Gökhan. *Yazılı Türkçenin Kelime Sıklığı Sözlüğü*. Kömen Yayınları, 2011.

Pilav, Salim. *Üniversite Birinci Sınıf Öğrencilerinin Söz Varlığı Üzerine bir Araştırma*. 2008. Gazi University, PhD dissertation.

Sevinç, Melek. *Anahtar Sözcüklerin Söz Varlığını Geliştirmeye Etkisi*. 2008. Abant İzzet Baysal University, PhD dissertation.

Şimşek, Ramazan. "B1 Düzeyi Ders Materyallerinin Söz Varlığının ve B1 Düzeyi Öğrencilerin Yazılı Söz Varlığının Çeşitli Değişkenler Açısından Derlem Tabanlı İncelenmesi." *RumeliDE Journal of Language and Literature Studies*, vol. 7, 2020, pp. 152-171.

Şimşek, Ramazan, and Mesut Gün. "A Corpus-Based Proposal for the Vocabulary to be Taught at A1 Level in the Teaching of Turkish as a Foreign Language." *Educational Policy Analysis and Strategic Research*, vol. 16, no. 1, 2021, pp. 356-373.

Tognini-Bonelli, Elena. *Corpus Linguistics at Work*. John Benjamins Publishing, 2001.

Uslu, Kemalettin. *MEB 9. Sınıf Türk Edebiyatı Ders Kitabındaki Metinlerin Söz Varlığı Açısından Değerlendirilmesi*. 2010. Marmara University, PhD dissertation.