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© S.Zh. Zhanzhigitov^{1*}, A.K. Bakytzhanova², B.K. Syzdyk³, 2025

^{1,2,3} Institute of Legislation and Legal Information of the RK, Astana, Kazakhstan
(e-mail: ¹syrympha@gmail.com; ²altyn051275@gmail.com; ³syzdyk@gmail.com)

THE DYNAMICS OF SCIENTIFIC RESEARCH IN LINGUISTIC EXPERTISE: AN INTERNATIONAL REVIEW OF ACADEMIC PUBLICATIONS

Abstract. This article focuses on analyzing issues related to linguistic expertise in the contemporary scientific arena. The relevance of this topic is evidenced by the increase in the number of papers recorded in the Scopus database under the key-word “linguistic expertise,” from 12 in 2000 to 160 in 2023.

The aim of the article is to conduct a comprehensive examination of scientific publications from 2000 to 2023 in order to identify the main trends and directions in the field of linguistic expertise. The research methodology includes statistical analysis using the SPSS digital tool, which allows collecting extensive data and quantifying scientific research.

The principal novelty of this study lies in its comprehensive mapping of every publication on linguistic expertise indexed in Scopus between 2000 and 2023, systematically classifying them by genre, patterns of authorship collaboration, and interdisciplinary orientation. This approach for the first time in the field reveals not only the literature’s quantitative expansion but also the dynamics of its qualitative shifts. The findings demonstrate a clear transition from descriptive analyses to instrument-oriented models grounded in artificial intelligence, corpus linguistics, and legal linguistics.

The theoretical significance of the article lies in the systematization of multidisciplinary studies on linguistic expertise and in enhancing the understanding of the emerging scientific interest in this subject. The practical significance is reflected in the possibility of applying the findings in such areas as social sciences, humanities, computer science, and psychology.

The conclusions obtained highlight the current importance of linguistic expertise and its potential for fostering interdisciplinary research. The study results underscore the need for further scholarly engagement in this field, confirming the promise of linguistic expertise for various branches of knowledge.

* corresponding author. E-mail: syrympha@gmail.com.

Keywords: linguistics, linguistic expertise, text, scientific publication, Scopus, legal language.

Introduction

Over the past two decades, global interest in linguistic expertise a discipline at the crossroads of linguistics, law, and digital technology has surged, with Scopus showing a ten-fold increase in relevant publications, from a handful of papers in the early 2000s to hundreds today. This expansion marks the field's shift from local legal applications to a genuinely interdisciplinary science that harnesses corpus analysis, artificial intelligence, and digital humanities methods. A systematic bibliometric examination of this body of work not only maps leading research hubs and highlights the most cited strands such as forensic linguistics, fake-news detection, and conflict-triggering language analysis but also exposes thematic "blind spots," thereby setting clear benchmarks for future theoretical and practical advances in linguistic expertise. Utilizing the Scopus database, one of the largest abstract and citation databases of scientific literature, allows for a comprehensive analysis of scientific publication activity, identifying trends and problem areas, which is crucial for the development of scientific disciplines, setting strategies for scientific journals, and university research programs [1]. Researchers increasingly turn to Scopus for bibliometric analysis due to its wide coverage of various publication types, including articles, conference proceedings, books, and review articles [2]. Compared to other databases like Web of Science, Scopus is known for its broader coverage and is considered suitable for bibliometric analysis in various fields [3].

In the research environment, Scopus stands out as a multidisciplinary database, providing scholars with tools to analyze a wide range of topics from social phenomena like workforce flexibility to scientific research in the "blue economy," olfactory and taste dysfunctions associated with COVID-19, as well as issues of poverty and ecology [4–7]. Preference for Scopus is explained not only by its wide coverage of research works but also by the accuracy of citations and the availability of advanced analytical tools, which favorably distinguishes it from other databases like PubMed or Web of Science [8 - 9]. This platform plays a key role in bibliometric analysis, allowing for the assessment of research impact and the identification of new scientific trends and knowledge gaps [10–12]. Thus, Scopus serves as an indispensable resource for the scientific community, facilitating a deep understanding and analysis of interdisciplinary research trends and contributions to scientific knowledge.

Analysis of scientific publication activity in the field of linguistics through the lens of the Scopus database from 2000 to 2023 shows significant growth in interest in this discipline, with the total number of documents reaching 1,305 publications. The research covered a wide range of topics, including technological advancements in language communication, educational innovations in language learning, public health issues, sociolinguistics and cultural studies, as well as legal and ethical aspects of language use and communication technologies. Leading countries by the number of

studies include the United States, the United Kingdom, France, Canada, and China, highlighting the global interest in linguistic expertise. Key research centers contributing to the advancement of this field are CNRS in France, the University of Helsinki in Finland, the Rochester Institute of Technology, Northwestern University, and the University of Vienna in Austria. This analysis underscores the significant growth and diversity of linguistic research, contributing to a deep understanding of language and communication in various social and cultural contexts.

The aim of this study is a comprehensive analysis of scientific publication activity in the field of linguistic expertise using the Scopus database to identify key directions, trends, and development dynamics in this scientific area. Based on extensive analysis of quantitative and qualitative data, the research aims to determine the most actively explored topics and to identify less studied and potentially promising areas within linguistic expertise.

Studying the dynamics and trends in linguistic research through the Scopus database reveals a rich landscape of academic interest and innovation. Kononova et al. (2018) explore the evolution of terminology in interdisciplinary areas like the digital economy, demonstrating how linguistic methods are applied to analyze new terminology [13]. Similarly, Pavlenko (2017) presents an in-depth analysis of sociolinguistic methods in studying the Russian language abroad, emphasizing the significance of linguistic context in a globalized world [14]. Lyubimova (2021) focuses on assessing phonological competence in English, indicating its role as a lingua fran-

ca in international communication [15]. Further research on innovative methods in linguistics is reflected in the work of Kochergina (2019), who develops a linguistic database of negatively evaluative vocabulary, enriching technological approaches in linguistic analysis [16]. Studies like Bakholdina and Koshchavka (2021) expand interdisciplinary horizons by linking morphological and psychological aspects of female identity, highlighting the complexity of the interaction between language and social structures [17]. Avanesov et al. (2019) advance the understanding of the morphology of lingual fossae of the mandible, opening new directions for medical linguistics [18].

Continuing the analysis of linguistic research through Scopus, we turn to the geographical and linguistic study of publications, which reveals the importance of contextualizing linguistic data in various cultural and social settings. Studies such as those conducted by Biró (2022) [19] and Purshke (2020) [20] demonstrate in-depth analysis of linguistic landscapes and their impact on cultural and social aspects of society, emphasizing the role of linguistics in understanding globalization and multilingualism. Mohsen (2021) explores the analysis of global publications, revealing how linguistic research spreads and influences various language communities [21]. Analyzing responses to global events, such as the COVID-19 pandemic, through the lens of linguistics, especially in works by Hou et al. (2020), allows for the assessment of public emotions and risk perception, demonstrating the importance of linguistic analysis for understanding public sentiments [22]. Zhu et al. (2023)

continue this theme, exploring changes in linguistic features associated with public perception of anxiety disorders in the context of the pandemic, emphasizing the importance of linguistics in analyzing social changes [23].

In addition, the study by Ogiela and Ogiela (2017) on linguistic formalisms in cryptography [24] and Liang et al. (2023) on analyzing management tone in economics expand the application of linguistic methods beyond traditional linguistics, demonstrating the interdisciplinary nature of linguistic analysis [25]. These studies show how linguistic approaches can be applied to solve complex issues in various fields, from information security to financial markets, emphasizing the transdisciplinary significance of linguistic research and their ability to provide unique insights into various aspects of human activity and social interaction.

In continuing the comprehensive exploration of linguistic expertise, it is essential to highlight the contribution of specialized institutions that focus on the scientific support of legislative processes, including the linguistic analysis of legal texts. One such institution is the Linguistics Center at the "Institute of Legislation and Legal Information of the Republic of Kazakhstan" (Ministry of Justice of the Republic of Kazakhstan) in the city of Astana. The Center's core activities encompass conducting scientific linguistic expertise on draft legislative acts and international treaties intended for ratification by the Republic of Kazakhstan, as well as undertaking fundamental and applied research related to legal support for government operations. Within its mandate, the Center col-

laborates with governmental and non-governmental organizations, carries out research on legislative drafts, ensures the authenticity and consistent application of legal terminology in the state language, and organizes scholarly and practical events such as conferences and round tables. Several scholars affiliated with the Institute have published research on linguistic expertise and legal linguistics. For instance, N.M. Primashev's study titled "Legal-linguistic monitoring as a means for improving legislation" (Құқықтық-лингвистикалық мониторинг заңнаманы жетілдіру құралы ретінде) provides insights into the role of linguistic monitoring in legislation enhancement [26], A.A. Medinaeva published "On the peculiarities of punctuation rules in the Kazakh language in state-language legislation" (Мемлекеттік тілдегі заңнамадағы қазақ тілінің пунктуациялық ережелерінің ерекшеліктері туралы) [27] and N.A.Nurbayeva authored "Linguistic errors in legal texts" (Заң мәтіндеріндегі лингвистикалық қателер) [28], both underscoring the significance and practical value of linguistic research in the legal domain.

Materials and methods

The data source for the analysis was the Scopus database, owing to its comprehensive coverage of scientific publications in linguistics and related disciplines. The choice of Scopus is due to its authority and wide recognition in the scientific community, as well as its ability to precisely select materials by keywords and other parameters. During the preliminary analysis, 1,305 publications were identified that met the specified selection cri-

teria, including articles (786), conference papers (255), book chapters (128), reviews (59), standalone books (58), editorial materials (9), conference reviews (4), notes (3), short reviews (2), and corrections (1). These materials cover the period from 2000 to 2023, allowing for the analysis of research activity dynamics in this area over more than two decades. The key selection criterion was the use of the phrase “linguistic expertise” in the titles, abstracts, or keywords of documents. This ensured the collection of data directly related to the topic of linguistic expertise. The distribution of materials by years shows a gradual increase in the number of publications, starting from 12 in 2000 and reaching 160 in 2023, reflecting the growing interest in this research field.

An important component of the analysis is also the study of subject differentiation: the largest number of works falls under social sciences (709), arts and humanities (522), computer sciences (318), and psychology (123). Thus, the choice of materials is motivated by the desire to ensure a comprehensive analysis of scientific publication activity in the field of linguistic expertise, identifying key trends and directions in this research area.

As the primary tool for data collection, the Scopus database was selected, being one of the largest and most authoritative scientific databases globally. Scopus provides extensive capabilities for filtering and searching scientific publications by various criteria, including keywords, authors, years of publication, sources, etc., making it an ideal tool for comprehensive analysis of scientific publication activity. In our study, filtering by the

keyword “linguistic expertise” was utilized, allowing for the selection of relevant studies in the field of linguistic expertise. To export data from Scopus, the function of exporting search results in Excel format was used. This provided a convenient data format for subsequent processing and analysis. The Excel file contained all the necessary information about each publication, including article titles, authors, year of publication, number of citations, journals, and other bibliographic data. The exported data served as the basis for further analysis.

For data processing and analysis, the statistical package SPSS (Statistical Package for the Social Sciences) was used, offering a wide range of tools for performing both descriptive and inferential statistical analyses. SPSS allows for various types of analyses, including frequency analysis, distribution analysis, correlation, and regression analyses, making it an indispensable tool for comprehensive study of scientific publication activity. The use of SPSS is due to its convenience, flexibility, and power in analyzing large volumes of data, as well as the ability to visualize analysis results.

Results and Discussion

Moving on to the analysis of results, key trends in the field of linguistic expertise reflected in academic literature indexed by the Scopus database for the period from 2000 to 2023 can be highlighted. A noticeable growth in publications is observed: from the beginning of the century, when there were only 12 articles, to 160 articles in 2023, indicating a significant increase in scientific interest in this discipline (Figure 1). This growth is espe-

cially pronounced starting from activity in this research direction. 2010, marking intensified academic

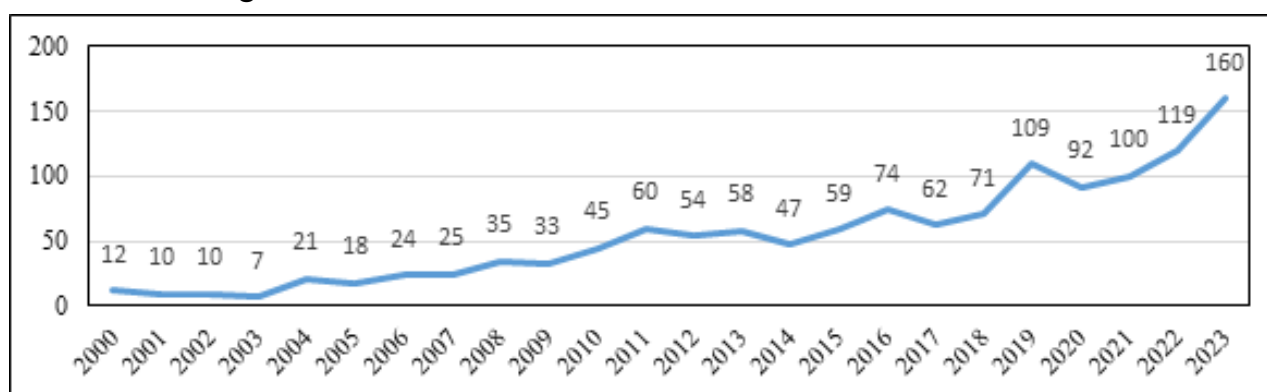


Figure 1. Evolution of Scientific Interest in Linguistic Expertise: Analysis of Scopus Data from 2000 to 2023 (Source: Own calculations based on data from articles indexed in Scopus; Export Date: April 14, 2024).

Analyzing the distribution of publications by country revealed that the greatest contribution to the literature on linguistic expertise was made by scholars from the United States (355 publications), followed by researchers from the United Kingdom (151), France (78), Canada (69), and China (65). Notably, the Russian Federation

also stands out with 63 publications, highlighting the interest in this topic in countries with a legacy of the Soviet academic tradition and demonstrating a tendency toward integration into the global scientific community and an emphasis on publishing in internationally recognized sources (Figure 2).

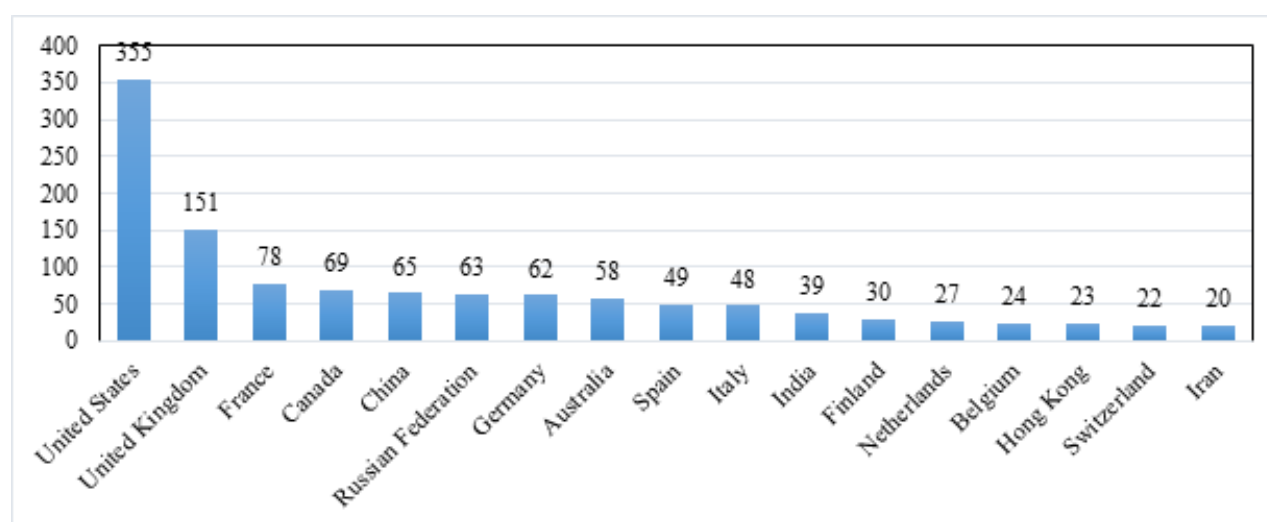


Figure 2. Global Distribution of Publications on Linguistic Expertise: Analysis of Country Contributions to Academic Literature (Source: Own calculations based on data from articles indexed in Scopus; Export Date: April 14, 2024).

Such dynamics may be associated with the globalization of scientific research and increased interaction between countries in the academic

sphere, as well as changes in funding policies and the evaluation of scientific work, which encourage publications in international journals indexed

by leading databases.

In the context of the thematic focus of scientific works, data analysis on linguistic expertise reflects the multidisciplinary nature of research in this area. The majority of publications fall under social sciences (709 works), which is not surprising given the central role of language in social processes and public interaction. Arts and humanities also hold a significant share with 522 publications, emphasizing the importance of linguistic research in these fields.

In the field of computer sciences (318 publications), linguistic expertise

is key to the development of natural language processing technologies and artificial intelligence. Psychology (123 publications) and neuroscience (80 publications) reflect interest in understanding language processing and its connection with cognitive processes (Figure 3). Interdisciplinary links are also evident in other areas such as medicine (103 publications) and engineering (120 publications), where linguistic research can contribute to the development of communication technologies and the improvement of practices in healthcare.

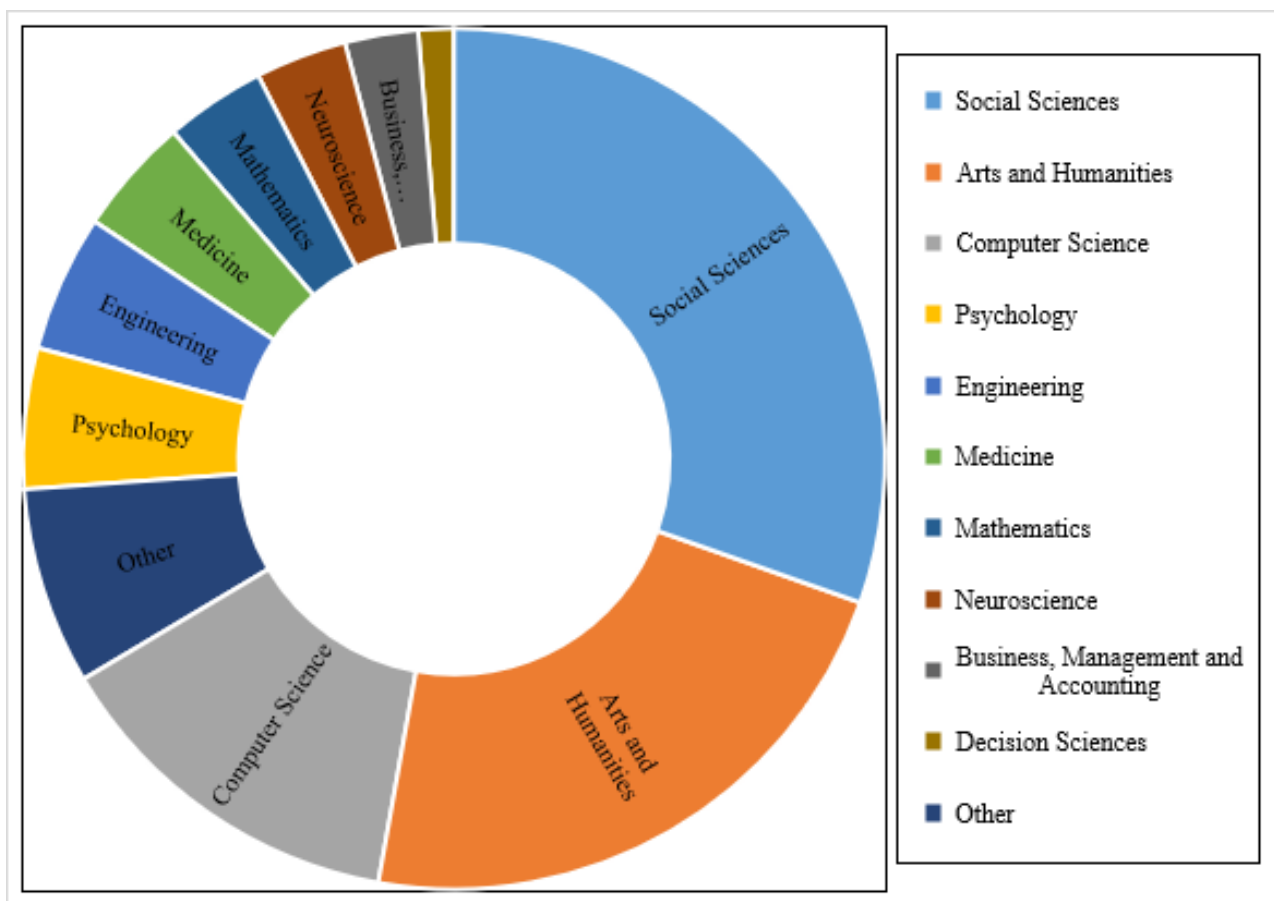


Figure 3. Interdisciplinary Research Landscape: The Contribution of Linguistic Studies to the Development of Sciences (Source: Own calculations based on data from articles indexed in Scopus; Export Date: April 14, 2024).

Such a diverse spectrum of disciplines associated with linguistic expertise underscores the pervasive influence of language on various fields of knowledge and confirms the rele-

vance of this area for numerous academic disciplines. It also indicates that linguistics remains an important component in a wide range of scientific research, reflecting its central role

in interpreting and understanding human experience and knowledge.

Studying the sources where scientific works on linguistic expertise are published demonstrates preferences and trends in the choice of platforms for disseminating research. The main body of publications consists of the “Lecture Notes in Computer Science” series, including the subseries “Lecture Notes in Artificial Intelligence” and “Lecture Notes in Bioinformatics,” with 26 articles. This reflects a strong connection of linguistic expertise with technological developments in computer science and artificial intelligence (Figure 4). Journals like “Frontiers in Psychology” and “PLOS ONE,” each with 10 publications, emphasize an interdisciplinary approach in modern linguistic research, shedding light on psychological and social aspects of language interaction and communication. Publications in “CEUR Workshop Proceedings” and “Communications in Computer and Information Sci-

ence” (9 articles each) demonstrate the relevance of linguistic expertise in the context of computer sciences and information technology. The scientific journal “Medialingvistika” with 8 publications and “Vestnik Volgogradskogo Gosudarstvennogo Universiteta Seriya 2 Yazykoznanie” with 6 articles testify to the contribution of Russian researchers to the development of linguistic expertise, highlighting the importance of the national context in studying linguistic phenomena. A number of sources with 5 publications, including “Expert Systems with Applications,” “Language and Education,” and “Linguistics and Education,” indicate the significance of applied aspects of linguistic expertise in education and the application of expert systems. Research published in these journals contributes to understanding how language knowledge and skills influence learning and the development of technological solutions.

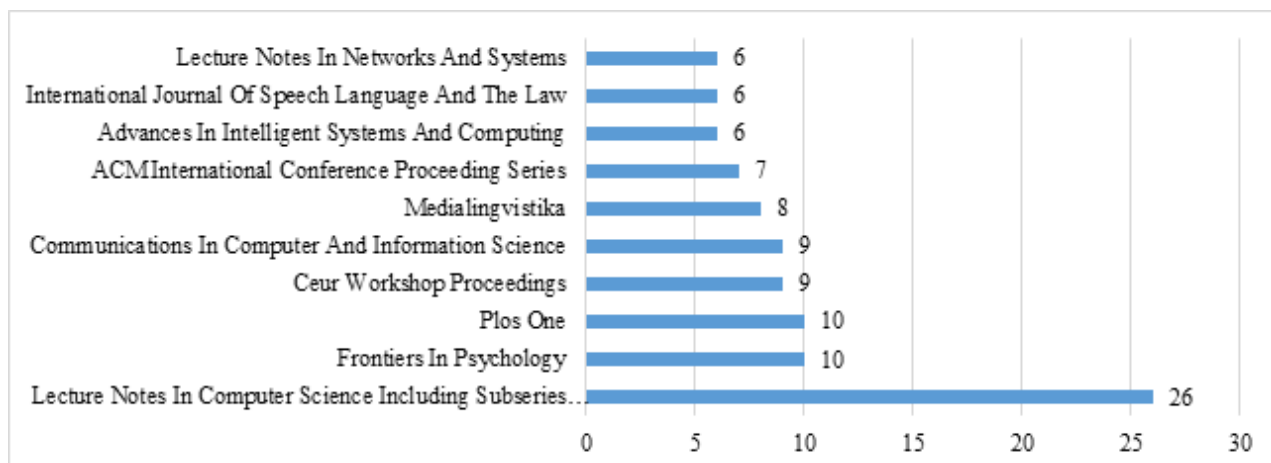


Figure 4. Distribution of Publications on Linguistic Expertise in Various Scientific Editions: Analysis of Scopus Data from 2000 to 2023 (Source: Own calculations based on data from articles indexed in Scopus; Export Date: April 14, 2024).

Overall, the analysis of publication sources confirms the multidisciplinary nature of linguistic expertise and its significance for various fields of knowledge and practical activity. The distribution of publications by sources

will be clearly presented in the subsequent figure, which demonstrates the contribution of various academic journals to the development and dissemination of knowledge in this area.

Overall, based on these data, we

can speak of the progress and evolution of scientific interests that reflect changes in public priorities, technological progress, and the academic community.

The study focuses on analyzing trends in linguistic expertise based on data indexed in Scopus from 2000 to 2023. We investigated how scientific interest in this field has developed, identifying key themes and methodologies that have attracted researchers' attention. The main goal was to understand why certain aspects of linguistics become subjects of active study and how this is reflected globally across various academic circles.

Research confirms a significant increase in academic interest in linguistic expertise, especially since 2010, as evidenced by the growing number of publications. This growth indicates an expansion of research interests and the multidisciplinary nature of linguistic studies, encompassing aspects such as the relationship between linguistic characteristics and perceived experience [29], as well as feedback in second-language writing [30].

Our studies also confirm the multidisciplinary nature of linguistic expertise, especially in the social sciences, where language plays a central role in social processes. This is reflected in the works of Toma and D'Angelo (2014) [29], where the relationship between linguistic characteristics and the perception of experience is analyzed, as well as in the research of Zhang and Hyland (2018), highlighting the importance of feedback in second-language writing. Interest in linguistic expertise is also noticeable in computer sciences, where the development of natural language processing (NLP) and artificial intelligence (AI) technologies plays a key role [30].

In light of the results obtained and the trends identified in our linguistic expertise especially as it relates to legal texts translated from Russian into Kazakh and subsequently refined in terms of lexical, orthographic, and stylistic accuracy we see significant potential for future research. It is vital to continue studying the interaction between linguistic expertise and technological development, particularly in AI and NLP. The opportunities presented by applying these technologies in fields such as medicine, education, and social sciences offer fertile ground for interdisciplinary research. Moreover, exploring how linguistic skills and knowledge contribute to legal interpretation and digital public discourse can provide new insights into social cohesion and disagreement in the digital age.

Further studies could also focus on the impact of linguistic expertise on the development of political discourse and public decision-making. Analyzing the linguistic strategies employed in political communication and their influence on public opinion may prove key to understanding modern political processes and devising effective strategies for informing society. Collectively, these proposals chart a path for a deeper, multifaceted study of linguistic expertise, emphasizing its central role in understanding and shaping modern society, including our specialized work in refining legal texts translated from Russian into Kazakh.

Conclusion

Covering 2000–2023, our review shows that linguistic expertise has moved from a niche pursuit to a vibrant, truly global field. Publication numbers grew steadily, and researchers from the United States, United Kingdom, France, Canada, China, and Russia now set the pace

evidence that interest in language-focused analysis transcends national borders.

The discipline's strength lies in its multidisciplinary: findings and methods drawn from linguistics inform work in the social sciences, computer science, psychology, neuroscience, medicine, and engineering. Studies on natural language processing, the social uses of language, and the cognitive and cultural forces shaping linguistic

structure illustrate how broadly the field now operates.

Looking forward, the rapid uptake of AI and NLP tools signals a shift toward technology-driven inquiry, yet the humanistic core of linguistic expertise its capacity to illuminate how language mediates knowledge and interaction remains intact. Sustained collaboration across disciplines and the refinement of methodological toolkits will be essential to unlocking the field's full potential.

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© С.Ж. Жанжигитов¹, А.Қ. Бақытжанова², Б.Қ. Сыздық³, 2025

^{1,2,3} ҚР Заңнама және құқықтық ақпарат институты, Астана, Қазақстан
(e-mail: ¹syrymphyd@gmail.com; ²altyn051275@gmail.com; ³syzdyk@gmail.com)

ЛИНГВИСТИКАЛЫҚ САРАПТАМА САЛАСЫНДАҒЫ ҒЫЛЫМИ ЗЕРТТЕУЛЕРДІҢ ДИНАМИКАСЫ: ХАЛЫҚАРАЛЫҚ АКАДЕМИЯЛЫҚ ЖАРИЯЛАНЫМДАРҒА ШОЛУ

Аннотация. Мақала қазіргі заманғы ғылыми кеңістіктегі лингвистикалық сараптама мәселелерін талдауға бағытталған. Бұл тақырыптың өзектілігін 2000 жылдан 2023 жылға дейін «лингвистикалық сараптама» кілт сөзі бойынша Scopus дерекқорында тіркелген мақалалар санының 12-ден 160-қа дейін өсуі дәлелдейді.

Мақаланың мақсаты – 2000-2023 жылдар аралығындағы ғылыми жарияланымдарды кешенді саралау арқылы лингвистикалық сараптама саласындағы негізгі үрдістер мен бағыттарды айқындау. Зерттеу әдіснамасы ауқымды деректерді жинақтау мен ғылыми ізденістердің сандық көрсеткіштерін анықтауға мүмкіндік беретін SPSS цифрлық құралын пайдалана отырып статистикалық талдау жүргізуді қамтиды.

Зерттеудің басты жаңалығы 2000–2023 жылдар аралығында Scopus базасына енген лингвистикалық сараптамаға қатысты барлық жарияланымды қамтып, оларды жанрлық ерекшеліктері, авторлық ынтымақтастық үлгілері және пәнаралық бағыттар бойынша жан-жақты жүйелеу. Мұндай әдіс алғаш рет лингвистикалық сараптама саласындағы сандық өсімнің ғана емес, сапалық өзгерістердің де динамикасын ашып көрсетті. Нәтижесінде лингвистикалық сараптаманың сипаттамалық талдаудан жасанды интеллектке, корпус лингвистикасына және құқықтық лингвистикаға негізделген құралдық модельдерге қарай бетбұрыс жасағаны дәлелденді.

Мақаланың теориялық маңызы лингвистикалық сараптама мәселесіне қатысты көпсалалы зерттеулерді жүйелеп, қазіргі таңда қалыптасып келе жатқан ғылыми қызығушылықты тереңірек түсінуге ықпал етуінде. Практикалық маңызы алынған нәтижелердің қоғамдық, гуманитарлық, компьютерлік және психологиялық ғылымдар салаларында кеңінен қолданылу мүмкіндігімен анықталады.

Қорытындылар лингвистикалық сараптаманың қазіргі кезеңдегі маңыздылығын және оның пәнаралық зерттеулерді дамытудағы әлеуетін айғақтады. Зерттеу нәтижелері бұл бағыттағы ғылыми ізденістерді одан әрі жандандырудың қажет екенін көрсетіп, түрлі білім салалары үшін лингвистикалық сараптаманың перспективалы екенін дәлелдеді.

Түйінді сөздер: лингвистика, лингвистикалық сараптама, мәтін, ғылыми жарияланым, Scopus, заң тілі.

© С.Ж. Жанжигитов¹, А.К. Бакытжанова², Б.К. Сыздық³, 2025

^{1,2,3} Институт законодательства и правовой информации РК, Астана, Қазақстан
(e-mail: ¹syrymphyd@gmail.com; ²altyn051275@gmail.com; ³syzdyk@gmail.com)

ДИНАМИКА НАУЧНЫХ ИССЛЕДОВАНИЙ В ОБЛАСТИ ЛИНГВИСТИЧЕСКОЙ ЭКСПЕРТИЗЫ: МЕЖДУНАРОДНЫЙ ОБЗОР АКАДЕМИЧЕСКИХ ПУБЛИКАЦИЙ

Аннотация. Статья посвящена анализу проблем лингвистической экспертизы в современном научном пространстве. Актуальность данной темы подтверждается увеличением количества статей, зарегистрированных в базе Scopus по ключевому слову «лингвистическая экспертиза», с 12 в 2000 году до 160 в 2023 году.

Цель статьи – комплексное исследование научных публикаций за период

2000-2023 гг., направленное на выявление основных тенденций и направлений в области лингвистической экспертизы. Методология исследования включает в себя проведение статистического анализа с использованием цифрового инструмента SPSS, позволяющего собирать обширные данные и определять количественные показатели научных исследований.

Научная новизна исследования заключается в том, что впервые охвачены все публикации по лингвистической экспертизе, включённые в базу Scopus за 2000–2023 гг., и проведена их всесторонняя систематизация по жанровым характеристикам, формам авторского сотрудничества и междисциплинарным направлениям. Такой подход позволил выявить не только количественный рост публикационной активности, но и динамику качественных преобразований в области лингвистической экспертизы. В результате показано, что фокус дисциплины сместился от описательных исследований к инструментально ориентированным моделям, основанным на методах искусственного интеллекта, корпусной и правовой лингвистики.

Теоретическая значимость статьи заключается в систематизации мультидисциплинарных исследований по проблемам лингвистической экспертизы и более глубоком понимании формирующегося научного интереса к этой теме. Практическая значимость проявляется в возможности применения полученных результатов в таких областях, как социальные, гуманитарные, компьютерные и психологические науки.

Полученные выводы демонстрируют важность лингвистической экспертизы в современный период и ее потенциал в развитии междисциплинарных исследований. Результаты исследования указывают на необходимость дальнейшего активизирования научной деятельности в данном направлении, подтверждая перспективность лингвистической экспертизы для различных областей знаний.

Ключевые слова: лингвистика, лингвистическая экспертиза, текст, научная публикация, Scopus, юридический язык.

Авторлар туралы мәліметтер:

Жанжигитов Сырым Жанмуратович - хат-хабарларға арналған автор, PhD докторы, Қазақстан Республикасы Заңнама және құқықтық ақпарат институты Лингвистика орталығының ғылыми қызметкері, Жеңіс данғылы, 15А, 010000, Астана, Қазақстан.

ORCID: <https://orcid.org/0000-0002-7814-1378>;

Scopus Author ID: 57733800000;

e-mail: syrymphd@gmail.com.

Бакытжанова Алтын Куанышбековна - филология ғылымдарының кандидаты, Қазақстан Республикасы Заңнама және құқықтық ақпарат институты Лингвистика орталығының жетекші ғылыми қызметкері, Жеңіс данғылы, 15А, 010000, Астана, Қазақстан.

ORCID: <https://orcid.org/0000-0002-5305-8295>;

Scopus Author ID: 58785446200;

e-mail: altyn051275@gmail.com.

Сыздық Болат Кенелұлы - заң ғылымдарының кандидаты, қауымдастырылған профессор, Қазақстан Республикасы Заңнама және құқықтық ақпарат институты Лингвистика орталығының басшысы, Жеңіс данғылы, 15А, 010000, Астана, Қазақстан.

ORCID: <https://orcid.org/0000-0002-8541-7790>;

Scopus Author ID: 57191857471;

e-mail: syzdyk@gmail.com.

Алғыс. Авторлар Қазақстан Республикасы Ғылым және жоғары білім министрлігіне, сондай-ақ рецензенттерге сараптамалық пікірлері мен сындарлы көзқарастары үшін алғыс білдіреді.

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халықаралық академиялық жарияланымдарға шолу // Қазақстан Республикасының Заңнама және құқықтық ақпарат институтының Жаршысы. Ғылыми-құқықтық журнал. 2025;80(4): DOI – https://doi.org/10.52026/2788-5291_2025_80_4_409.

Авторлардың қосқан үлесі:

Жанжигитов С.Ж. – хат-хабарға жауапты, зерттеу тұжырымдамасы мен әдіснамасын әзірлеу; кіріспе мен қорытындының негізгі нұсқаларын жазу; нәтижелерді талдау және интерпретациялау; статистикалық деректерді өңдеу; жұмысты жалпы ғылыми үйлестіру.

Бақытжанова А.К. – «Материалдар мен әдістер» бөлімін әзірлеу; әдебиеттерге шолу; статистикалық деректерді өңдеу; нәтижелерді талдау және интерпретациялау; қорытынды тұжырымдарды бекіту; кестелер мен суреттерді әзірлеу.

Сыздық Б.К. – деректерді жинау; «Нәтижелер мен талқылау» бөлімінің бастапқы нұсқаларын дайындау; ғылыми және тілдік редакциялау; әдебиеттер тізімін рәсімдеу; транслитерация; авторлар туралы мәліметтерді рәсімдеу.

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Авторлар қолжазбаның соңғы нұсқасын оқып, мақұлдады.

Сведения об авторах:

Жанжигитов Сырым Жанмуратович - автор для корреспонденции, доктор PhD, научный сотрудник центра Лингвистики Института законодательства и правовой информации Республики Казахстан, проспект Женис, 15А, 010000, Астана, Казахстан.
ORCID: <https://orcid.org/0000-0002-7814-1378>;
Scopus Author ID: 57733800000;
e-mail: syrymphd@gmail.com.

Бакытжанова Алтын Куанышбековна - кандидат филологических наук, ведущий научный сотрудник центра Лингвистики Института законодательства и правовой информации Республики Казахстан, проспект Женис, 15А, 010000, Астана, Казахстан.

ORCID: <https://orcid.org/0000-0002-5305-8295>;
Scopus Author ID: 58785446200;
e-mail: altyn051275@gmail.com.

Сыздық Болат Кенелұлы - кандидат юридических наук, ассоциированный профессор, руководитель центра Лингвистики Института законодательства и правовой информации Республики Казахстан; проспект Женис, 15А, 010000, Астана, Казахстан.
ORCID: <https://orcid.org/0000-0002-8541-7790>;
Scopus Author ID: 57191857471;
e-mail: syzdyk@gmail.com.

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Вклад авторов:

Жанжигитов С.Ж. – автор для корреспонденции; разработка концепции и методологии исследования; написание основных версий «Введения» и «Заключения»; анализ и интерпретация результатов; статистическая обработка данных; общее научное руководство.

Бакытжанова А.К. – подготовка раздела «Материалы и методы»; обзор литературы; статистическая обработка данных; анализ и интерпретация результатов; утверждение итоговых выводов; подготовка таблиц и иллюстраций.

Сыздық Б.К. – сбор данных; подготовка первоначальных версий раздела «Результаты и обсуждение»; научное и языковое редактирование; оформление списка литературы; транслитерация; подготовка сведений об авторах.

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Авторы прочитали и одобрили окончательный вариант рукописи.

Information about authors:

Zhanzhigitov S. Zh. – corresponding author, PhD, Research Fellow Linguistic Center Institute of Legislation and Legal Information of the Republic of Kazakhstan, 15A, Zhenis Avenue, 010000, Astana, Kazakhstan.

ORCID: <https://orcid.org/0000-0002-7814-1378>;

Scopus Author ID: 57733800000;

e-mail: syrymphd@gmail.com.

Bakytzhanova A.K. – Candidate of Philological Sciences, Leading Research Fellow Linguistic Center, Institute of Legislation and Legal Information of the Republic of Kazakhstan, 15A, Zhenis Avenue, 010000, Astana, Kazakhstan.

ORCID: <https://orcid.org/0000-0002-5305-8295>;

Scopus Author ID: 58785446200;

e-mail: altyn051275@gmail.com.

Syzdyk B.K. – Candidate of Legal Sciences, Associate Professor, Head of the Linguistic Center Institute of Legislation and Legal Information of the Republic of Kazakhstan, 15A, Zhenis Avenue, 010000, Astana, Kazakhstan.

ORCID: <https://orcid.org/0000-0002-8541-7790>;

Scopus Author ID: 57191857471;

e-mail: syzdyk@gmail.com.

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Contribution of the authors:

Zhanzhigitov S.Zh. - conceptualization and methodology; drafting the primary versions of the Introduction and Conclusion; analysis and interpretation of results; statistical data processing; overall scientific coordination; corresponding author.

Bakytzhanova A.K. - preparation of the Materials and Methods section; literature review; statistical data processing; analysis and interpretation of results; endorsement of final conclusions; preparation of tables and figures.

Syzdyk B.K. - data collection; drafting the initial versions of the Results and Discussion section; scientific and language editing; reference list formatting; transliteration; preparation of author information.

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