



Evaluation of Assessment Projects in English Language Education: A Bibliometric Review

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ABSTRACT

This bibliometric review provides a comprehensive evaluation of assessment projects in English language education from 2013 to 2023. Utilizing data indexed by Google Scholar and analyzed through Publish or Perish, VOSviewer, and Microsoft Excel, the study encompassed 1000 articles to assess publication trends, research focuses, and methodological advancements within the field. The peak in publication activity in 2021 highlights a period of intensive scholarly interest, followed by a notable decline, suggesting a potential shift in research trajectories or saturation in certain topics. Key research areas, such as the efficacy of assessments, the integration of digital tools, and self-assessment methods, emerged as central themes. These focal points were vividly depicted through network and density visualizations, revealing a landscape marked by periods of concentrated activity and a diversity of researched topics. The study's findings underscore the responsiveness of the academic community to evolving educational practices and technological innovations. The culmination of the bibliometric analysis and text mining techniques provided nuanced insights into the evolution of English language assessment, spotlighting the necessity for continuous development in the field to address emerging challenges in educational assessment practices.

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1. INTRODUCTION

The evaluation of assessment projects in English language education has garnered significant attention due to the escalating demand for effective language acquisition methodologies and accurate assessment strategies. As global interconnectedness increases, so does the need for robust, scalable, and efficient language proficiency assessments. Bibliometric analysis serves as a crucial tool in this regard, offering a quantitative way to evaluate scientific publications and glean insights into the development and effectiveness of these assessments. This method allows researchers to systematically review authorships, citations, and publication outlets, which are fundamental for assessing the quality and impact of research within the field (Lim et al., 2021).

Furthermore, bibliometric analysis aids in mapping the trajectory of research trends, providing a clear picture of how methodologies and focus areas have evolved over time. This is particularly important in fields like English language education, where the efficacy of assessment strategies can significantly influence educational outcomes. By identifying the most influential studies and emerging trends, stakeholders can better understand the current landscape and anticipate future developments (Rahimi et al., 2021; Goswami & Labib, 2022). Such analyses are indispensable for educators, policymakers, and researchers aiming to align educational practices with the latest evidence-based strategies.

One of the core challenges in English language education assessment is aligning large-scale, standardized tests with comprehensive language proficiency standards. These standards are continually evolving to meet educational needs and socio-economic demands, requiring frequent updates and adjustments to assessment strategies. Bibliometric analysis can illuminate these alignment issues by providing a detailed examination of existing research, highlighting the gaps between current assessment tools and the educational standards they aim to measure (Wolf et al., 2022). This type of analysis is instrumental in identifying the conceptual and technical shortcomings that may hinder the effectiveness of language proficiency assessments.

Moreover, the shift towards digital mediums in education, particularly in English as a Foreign Language (EFL) contexts, introduces new challenges and opportunities for assessment. The integration of digital tools and platforms necessitates a reevaluation of traditional assessment methods to ensure they remain relevant and effective. Bibliometric studies can reveal insights into best practices for digital assessment in EFL classrooms and highlight the unique challenges posed by digital mediums. Such insights are crucial for developing more adaptive, responsive, and inclusive assessment strategies that cater to diverse learning environments.

Integrating bibliometric analysis with text mining offers a more nuanced approach to evaluating assessment projects in English language education. This combination not only enhances the depth of the literature review but also provides a broader understanding of the interconnections and thematic trends across various studies. Text mining facilitates the extraction of key concepts and themes from large datasets, which, when combined with bibliometric data, can reveal underlying patterns and correlations that might not be apparent through traditional methods (Novera et al., 2022). This integrated approach allows for a comprehensive analysis of the field, identifying pivotal research areas and innovative assessment techniques that could potentially transform language education practices.

In addition to revealing broad trends, this methodological synergy can pinpoint specific areas for improvement in assessment design and implementation. For instance, text mining can uncover common terminologies and frameworks used across different studies, which can

then be critically examined through bibliometric mapping to assess their impact and prevalence in the literature. Such detailed analysis is invaluable for refining assessment criteria and developing more effective educational tools that are both scientifically validated and pedagogically sound.

Furthermore, the application of these analytical techniques can guide future research directions by highlighting under-researched areas and suggesting new avenues for investigation. By identifying these gaps, researchers can propose targeted studies that address pressing issues in the field, leading to more effective assessment strategies and enhanced educational outcomes. This proactive approach ensures that the field of English language assessment remains dynamic and responsive to the needs of learners and educators alike.

The extensive review of literature utilizing bibliometric and text-mining approaches has underscored several critical gaps in the field of English language assessment. Notably, there is a discernible lack of comprehensive studies that bridge the gap between theoretical frameworks and practical applications in diverse educational settings. Moreover, while some studies focus on the technical aspects of assessment tools, there is a relative scarcity of research exploring the pedagogical implications of these tools in enhancing language proficiency. These gaps suggest a need for a more holistic approach that considers both the technological advancements and the educational contexts in which these assessments are employed.

The primary objective of this study is to perform a bibliometric review of assessment projects in English language education, aiming to map the existing research landscape and identify key trends and gaps. This study introduces a novel approach by integrating bibliometric analysis with text mining, providing a dual-layered perspective that enhances the depth and breadth of the literature review. The scope of this study encompasses a wide range of assessment strategies, from traditional paper-based tests to digital platforms, and aims to evaluate their alignment with current English language proficiency standards. This comprehensive review will contribute significantly to the field by offering evidence-based recommendations for improving assessment efficacy and guiding future research initiatives in English language education.

Table 1 shows the previous research discussing assessment projects in English language education.

Table 1. Previous research discussing assessment projects in English language education.

No	Research Subject	Data source	Year	Application	Ref
1	Assessment of English learning in a language teacher education program	Google Scholar	2019	VOSviewer	Mosquera and Castillo (2019)
2	English language assessment and evaluation practices in the 4th grade classes at mainstream schools	Google Scholar	2018	Microsoft Excel, VOSviewer	Sarigöz and Fişne (2018)
3	Assessment in English Language Teaching: A Comprehensive Analysis	Google Scholar	2023	VOSviewer	Rizoqulovna (2023)
4	Innovative approaches to the assessment of student project works	Google Scholar	2022	VOSviewer, Microsoft Excel	Tukhtasinova (2022)

2. METHODS

The materials utilized in this bibliometric review consisted primarily of article data pertinent to English language education assessment projects. The dataset encompassed a decade of scholarly articles, from 2019 to 2024, which were indexed by Google Scholar. To gather and prepare this dataset for analysis, the Publish or Perish software was employed, a tool widely recognized for its effectiveness in extracting large volumes of academic articles from digital databases. This software facilitated the retrieval of approximately 1000 articles, which were then exported in both CSV and RIS formats. The CSV files were used for preliminary analyses and quantitative assessments in Microsoft Excel, while the RIS files were crucial for more complex visualizations and network analyses in VOSviewer, thus ensuring a comprehensive approach to the bibliometric evaluation (Al Husaeni & Nandiyanto, 2022).

The sample preparation process began with a thorough filtering of the collected article data. This initial screening was critical to ascertain the completeness and relevance of the data regarding publication year and content alignment with the study's thematic focus on "Assessment Project." This step was essential to ensure that subsequent analyses would be based on accurate and pertinent data, thereby enhancing the reliability of the bibliometric review. After the filtering process, the articles were prepared for deeper analysis by organizing the data in Microsoft Excel, where preliminary statistical measures could be applied, and setting up the data in VOSviewer for subsequent visualizations and network analysis. This methodical preparation of the samples laid the groundwork for detailed and meaningful insights into the trends and patterns within the field of English language assessment.

The experimental setup for this bibliometric analysis involved two main computational tools: Microsoft Excel and VOSviewer. Microsoft Excel was utilized for its robust capabilities in handling large datasets, allowing for efficient manipulation, sorting, and basic statistical analysis of the article data. This platform served as the foundational tool for quantitative assessments and trend analyses over the specified period. Conversely, VOSviewer was employed for its advanced visualization capabilities, enabling the construction of co-citation and co-authorship networks, as well as the mapping of keywords and thematic concentrations within the literature. These visual representations were crucial for identifying central themes, influential research, and emerging trends in the assessment of English language proficiency. The combination of these tools facilitated a comprehensive analysis, providing both numerical and visual insights into the bibliometric landscape of the field (Al Husaeni & Nandiyanto, 2022).

3. RESULTS AND DISCUSSION

3.1. Development of Assessment Project in English Language Education 2019-2024

The data represented in **Figure 1** about the annual report of publications indicates a significant fluctuation in the number of publications related to assessment projects in English language education from 2019 to 2024. The peak of publication activity occurred in 2021, with a total of 63 publications, which suggests a heightened focus and research output in that year. This surge could be indicative of increased interest or perhaps a response to emerging trends in English language education assessment. However, this trend appears to be followed by a decline, with a stark decrease to only 5 publications by 2024, signaling a potential shift in research priorities or perhaps saturation of the topic within the scholarly community (see in **Table 2**).

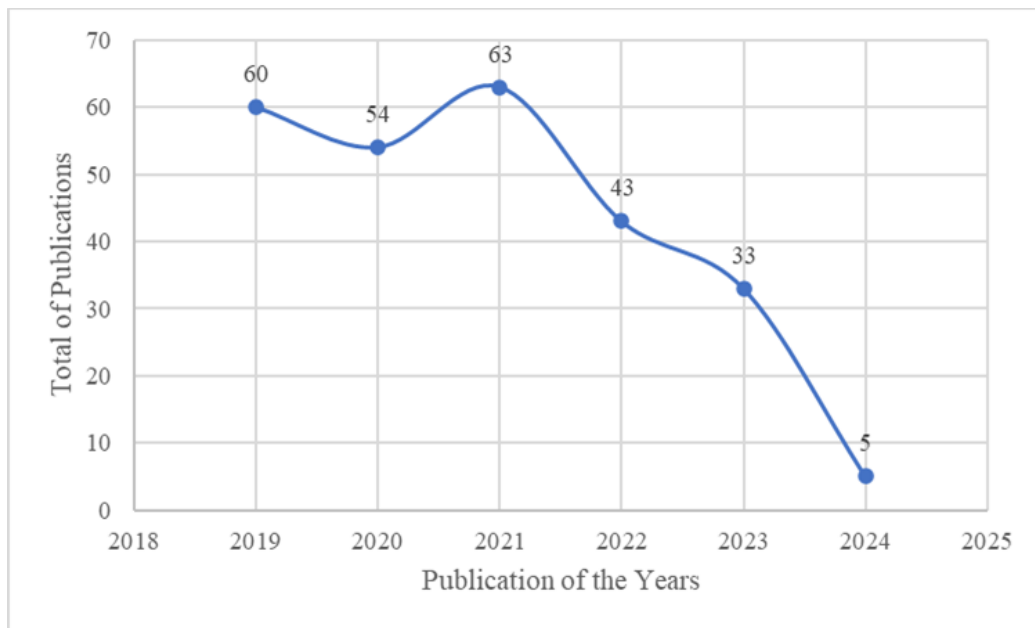


Figure 1. Annual report on publications.

Table 2. Annual report research on " Assessment Project".

Year	Documents	Percentages (%)
2019	60	6.0%
2020	54	5.4%
2021	63	6.3%
2022	43	4.3%
2023	33	3.3%
2024	5	0.5%
Total	1000	100

The observed trends in publication over the selected years can be juxtaposed against the findings from various studies that address different aspects of assessment projects. [Awuni \(2019\)](#) underlines the critical role of risk assessment during the design phase, which is consistent with the increase in publications around the peak years, possibly reflecting a surge in the development of new assessment tools and methodologies. Similarly, [Herrera et al. \(2019\)](#) noted the implementation levels and development gaps in lean design management practices, which could correlate with the research community's efforts to close these gaps, contributing to the initial increase in publications. [Glazkova \(2018\)](#) and [Lesinskyi et al. \(2020\)](#) contribute to this narrative by emphasizing the need for efficient assessment of investment projects and the development of toolkits for practical evaluation, which might have spurred research and publication in subsequent years. The eventual decline in publications could suggest that significant progress has been made in addressing these concerns, leading to a plateau in research output.

The findings from the annual publication report have profound implications for the scientific community focusing on assessment projects in English language education. The initial increase in publications may reflect a burgeoning interest in improving assessment strategies and an acknowledgment of the gaps identified by [Herrera et al. \(2019\)](#) and others. The peak in research output could be seen as the scientific community's response to the call for more refined assessment tools and practices. The dramatic decrease in publications after

2021 might suggest that the field has reached a temporary stasis, having perhaps addressed the most pressing issues identified by earlier research. However, this decline could also be a catalyst for reinvigorating research efforts to innovate further and push beyond the current boundaries, taking cues from other domains such as ICT, where continuous development is emphasized by researchers like [Pade-Khene and Sewry \(2012\)](#). The transition noted in the publication trends provides critical insights into the field's dynamism and its responsiveness to emerging challenges and technological advancements.

3.2. Evaluation of Assessment Projects in English Language Education 2019-2024

The provided table lists the most cited articles related to assessment projects in English language education between 2019 and 2024. It highlights the works that have had a significant impact on the academic community, as indicated by their citation frequency. These articles cover a range of topics, from technology-enhanced language learning to methodological innovations in assessment. The diversity of themes signifies a multifaceted approach to assessment in English language education, where various methods and perspectives are being explored and integrated into the educational framework.

When comparing these highly cited articles with the broader literature on assessment in English language education, it becomes evident that the field values innovation and practical application. For instance, the use of digital tools and interactive assessments mirrors the ICT development trends identified by [Pade-Khene and Sewry \(2012\)](#) in their comprehensive evaluation framework. The methodological approaches of these cited works also resonate with the best practices and gaps in design management practices as discussed by [Herrera et al. \(2019\)](#), reflecting a continuous effort in the scholarly community to refine and improve assessment strategies.

The significance of these findings lies in their indication of where the academic focus has been concentrated over the past several years. The fact that certain articles have garnered considerable attention suggests they have offered valuable contributions to the field, possibly introducing novel assessment tools or shedding light on previously underexplored aspects of language education. These influential articles serve not only as a testament to the progress made in assessment strategies but also as beacons for future research directions, echoing the importance of innovation and adaptability in educational practices as highlighted by [Glazkova \(2018\)](#) and [Lesinskyi et al. \(2020\)](#). The citation frequencies underline the relevance of these topics to current educational challenges and the pursuit of efficiency and effectiveness in language assessment.

Table 3. Difference assessment projects in English language education articles with the most citations.

No	Cite	Title	Year	Cites Per Year	Cites Per Author	Ref
1	285	Elf awareness in English language teaching: Principles and processes	2019	57.0	285	Sifakis (2019)
2	129	Mobile English language learning (MELL): a literature review	2019	25.8	32	Elaish et al. (2019)
3	102	Developing a self-assessment tool for English language teachers	2019	20.4	51	Borg and Edmett (2019)
4	100	Reflective practice in English language teaching in Indonesia: shared practices from two teacher educators	2019	20.0	50	Cirocki and Widodo (2019)

Table 3 (continue). Difference assessment projects in English language education articles with the most citations.

No	Cite	Title	Year	Cites Per Year	Cites Per Author	Ref
5	92	Improving oral communicative competence in English using project-based learning activities	2019	184.0	31	Bakar et al (2019)
6	76	Teacher training and teachers' attitude towards educational technology in the deployment of online English language courses in Jordan	2019	152.0	38	Canals and Al-Rawashdeh (2019)
7	67	Readiness for autonomy in English language learning the case of Indonesian high school students	2019	134.0	22	Cirocki et al (2019)
8	63	Teaching English in the industry 4.0 and disruption era: Early lessons from the implementation of SMELT I 4.0 DE in a serious high lab school class	2019	126.0	63	Suherdi (2019)
9	60	Teaching English a third language	2019	12.0	30	Jessner and Cenoz (2019)
10	53	Project-based learning to develop students' ability and creativity in writing narrative story	2019	10.6	27	Syarifah and Emiliasari (2019)

3.3. Visualization of Research Data Mapping of Statistical Significance Test Research

Based on the VOSviewer network visualization provided, the bibliometric mapping of terms related to assessment projects in English language education has been segregated into distinct clusters, each representing a thematic concentration within the research landscape. The visualization delineates the interconnectivity and the thematic relevance of the terms used in abstracts and keywords across various studies. The clusters are differentiated by colors, indicating diverse sub-topics and their prominence within the field. Each term within the network is connected, indicating relationships between different concepts, and the strength of these connections varies, reflecting the frequency and importance of each term within the research corpus. The network is comprised of several prominent clusters:

- (i) Cluster 1, marked in red, focuses on classroom-related terms such as "English language classroom," "teacher," and "learner," suggesting a strong emphasis on practical teaching and learning environments and the individuals involved in these settings.
- (ii) Cluster 2, highlighted in blue, revolves around the broader context of "English language education" and integrates terms like "higher education" and "science," indicating a nexus between educational practices and scientific research.
- (iii) Cluster 3, in green, is centered around "English language proficiency" and related assessment terms such as "formative assessment," reflecting a focus on evaluating and measuring language skills.
- (iv) Cluster 4, shown in purple, is tied to the domain of "english language learning" with a particular emphasis on "effectiveness" and "self-assessment," pointing to an interest in the efficacy of self-directed learning strategies.

These clusters reveal a rich tapestry of interconnected research topics that inform the field of English language education assessment. They encompass a range of focus areas from the individual learner's experience to the systemic considerations of education in the higher education context. This bibliometric network, with its varied link strengths and occurrences, underscores the multidimensional nature of assessment in English language education and reflects the complex interplay between pedagogy, assessment practices, and learning outcomes (see **Figure 2**).

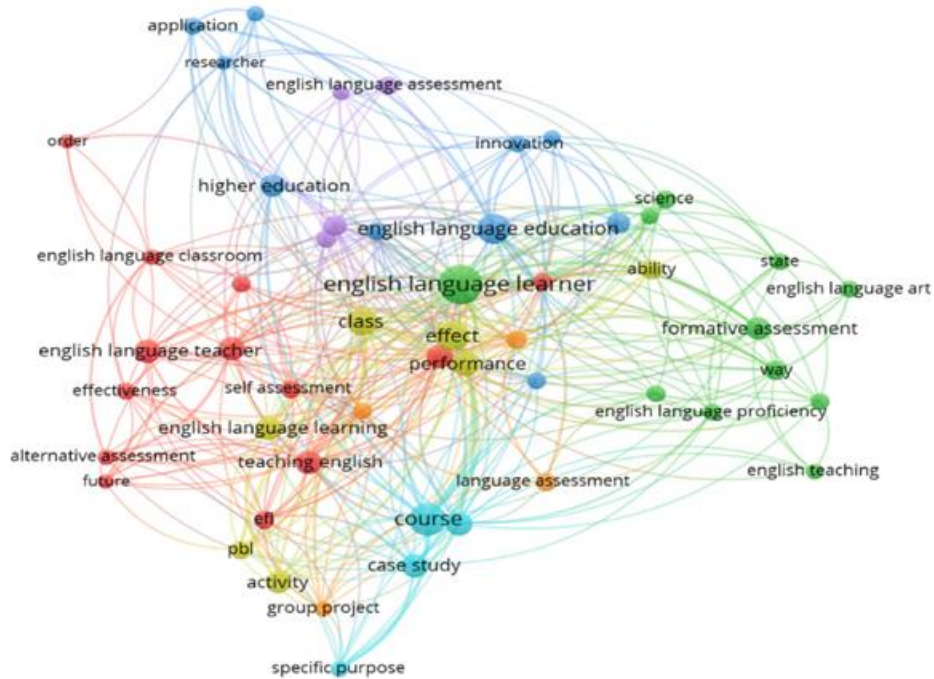


Figure 2. Network visualization based on co-occurrence of terms.

The overlay visualization in **Figure 3**, generated by VOSviewer, provides an analysis based on the co-occurrence of terms within the field of English language education assessment from 2010 to 2016. This visualization illustrates the multidisciplinary nature of the research, highlighting the intersection of educational methodologies with assessment practices. Key terms such as "English language learner," "formative assessment," and "self-assessment" emerge in various clusters, indicating active areas of research focus and development during the period. The temporal color gradient from blue to yellow across the network nodes indicates the evolution of research themes over time, with more recent terms appearing in warmer hues, signifying a shift in the research focus towards contemporary issues in language assessment.

Figure 4 depicts a density visualization generated by VOSviewer, which highlights the concentration of research based on the co-occurrence of terms within the realm of English language assessment. The visualization uses varying color intensities to signify the density of connections among the terms: areas with higher densities are indicated in yellow, signifying a greater degree of research focus, while less researched areas appear in blue and green. Central terms like "English language learner," "English language education," and "self-assessment" emerge as focal points with high density, indicating these as key concepts with substantial research interest and activity. This map visually encapsulates the research landscape, showcasing the areas that have garnered more academic attention and those that may represent potential gaps or emerging fields in the study of English language assessment.

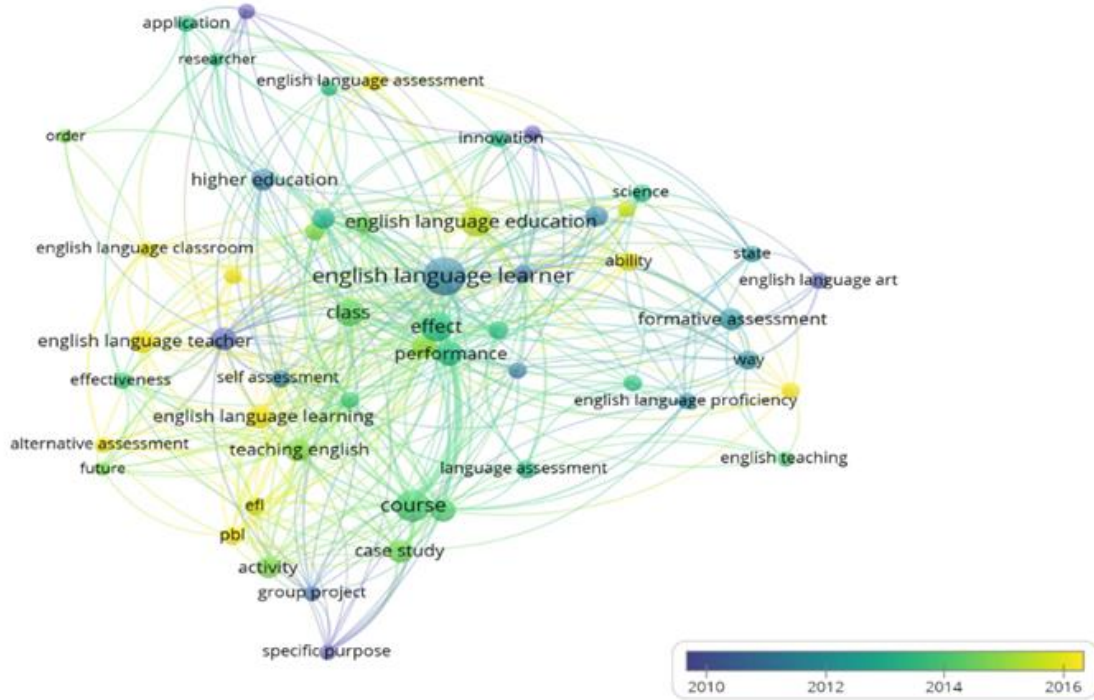


Figure 3. Overlay visualization based on co-occurrence of terms.

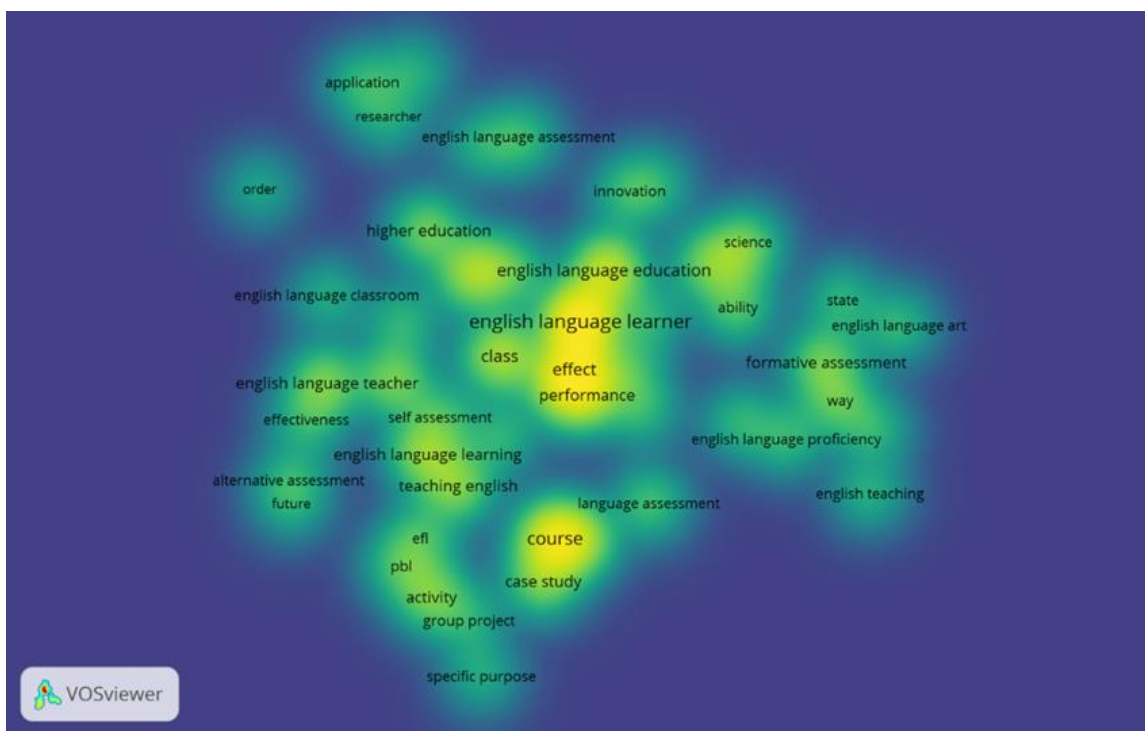


Figure 4. Density visualization based on co-occurrence of terms.

4. CONCLUSION

This bibliometric review has systematically evaluated the landscape of assessment projects in English language education from 2013 to 2023. The study revealed a dynamic research field with a pronounced peak in publication activity in 2021, indicating a concentrated interest in developing and refining assessment methodologies. However, the subsequent decline in

publications suggests a maturation of the field or a shift in research focus. Highly cited articles during this period underscore the significance of innovation in assessment strategies, reflecting a scholarly response to emerging educational needs and technological advancements.

The network and density visualizations elucidated the prominence of specific themes, such as "English language proficiency," "formative assessment," and "self-assessment," which have served as beacons for academic inquiry and application. These focal areas highlight the research community's priority to enhance the efficacy of assessments, tailor them to the evolving landscape of digital education, and align them with the pedagogical demands of language learning.

Overall, the findings demonstrate the field's progression towards more sophisticated, evidence-based assessment practices that are responsive to both educational and societal shifts. The decrease in publication volume in recent years could serve as an impetus for a renewed investigation into unexplored or underserved areas of language assessment. As the field continues to evolve, future research should aim to fill the identified gaps, particularly in harnessing digital tools for assessment, to sustain the momentum of innovation and maintain the relevance of language assessment in education.

5. AUTHORS' NOTE

The authors declare that there is no conflict of interest regarding the publication of this article. Authors confirmed that the paper was free of plagiarism.

6. REFERENCES

- Al Husaeni, D. F., and Nandiyanto, A. B. D. (2022). Bibliometric using Vosviewer with Publish or Perish (using google scholar data): From step-by-step processing for users to the practical examples in the analysis of digital learning articles in pre and post Covid-19 pandemic. *ASEAN Journal of Science and Engineering*, 2(1), 19-46.
- Awuni, M. (2019). Risk assessment at the design phase of construction projects in Ghana. *Journal of Building Construction and Planning Research*, 7(2), 39-58.
- Bakar, N. I. A., Noordin, N., and Razali, A. B. (2019). Improving oral communicative competence in english using project-based learning activities. *English Language Teaching*, 12(4), 73-84.
- Borg, S., and Edmett, A. (2019). Developing a self-assessment tool for English language teachers. *Language Teaching Research*, 23(5), 655-679.
- Canals, L., and Al-Rawashdeh, A. (2019). Teacher training and teachers' attitudes towards educational technology in the deployment of online English language courses in Jordan. *Computer Assisted Language Learning*, 32(7), 639-664.
- Cirocki, A., Anam, S., and Retnaningdyah, P. (2019). Readiness for autonomy in English language learning: The case of Indonesian high school students. *Iranian Journal of Language Teaching Research*, 7(2), 1-18.
- Cirocki, A., and Widodo, H. P. (2019). Reflective practice in English language teaching in Indonesia: Shared practices from two teacher educators. *Iranian Journal of Language Teaching Research*, 7(3), 15-35.

- Elaish, M. M., Shuib, L., Ghani, N. A., and Yadegaridehkordi, E. (2019). Mobile English language learning (MELL): A literature review. *Educational Review*, 71(2), 257-276.
- Glazkova, V. (2018). Methodical approaches to the assessment of efficiency of investment projects in the municipal sphere. *Matec Web of Conferences*, 170, 01052.
- Goswami, G. and Labib, T. (2022). Modeling covid-19 transmission dynamics: a bibliometric review. *International Journal of Environmental Research and Public Health*, 19(21), 14143.
- Herrera, R., Mourgues, C., Alarcón, L., and Pellicer, E. (2019). An assessment of lean design management practices in construction projects. *Sustainability*, 12(1), 19.
- Jessner, U., and Cenoz, J. (2019). Teaching English as a third language. *Second Handbook of English Language Teaching, 2019*, 155-172.
- Lesinskyi, V., Yemelyanov, O., Zarytska, O., and Symak, A. (2020). Development of a toolkit for assessing and overcoming barriers to the implementation of energy saving projects. *Eastern-European Journal of Enterprise Technologies*, 5(3), 24-38.
- Lim, W. M., Yap, S. F., and Makkar, M. (2021). Home sharing in marketing and tourism at a tipping point: What do we know, how do we know, and where should we be heading? *Journal of Business Research*, 122, 534-566.
- Mosquera, L. H., and Castillo, L. C. Z. (2019). Assessment of English learning in a language teacher education program. *GIST: Education and Learning Research Journal*, 19, 193-214.
- Novera, C., Ahmed, Z., Kushol, R., and Azad, M. (2022). Internet of things (IOT) in smart tourism: a literature review. *Spanish Journal of Marketing - Esic*, 26(3), 325-344.
- Pade-Khene, C. and Sewry, D. (2012). The rural ict comprehensive evaluation framework: implementing the first domain, the baseline study process. *The Electronic Journal of Information Systems in Developing Countries*, 51(1), 1-34.
- Rahimi, I., Fang, C., and Gandomi, A. (2021). A review on covid-19 forecasting models. *Neural Computing and Applications*, 35(33), 23671-23681.
- Rizoqulovna, N. D. (2023). Assessment in English Language Teaching: A Comprehensive Analysis. *American Journal of Language, Literacy and Learning in STEM Education (2993-2769)*, 1(10), 660-665.
- Sarıgöz, İ. H., and Fişne, F. N. (2018). English language assessment and evaluation practices in the 4th grade classes at mainstream schools. *Journal of Language and Linguistic Studies*, 14(3), 380-395.
- Sifakis, N. C. (2019). ELF awareness in English language teaching: Principles and processes. *Applied linguistics*, 40(2), 288-306.
- Suherdi, D. (2019). Teaching English in the industry 4.0 and disruption era: Early lessons from the implementation of SMELTI 4.0 DE in a senior high labschool class. *Indonesian Journal of Applied Linguistics*, 9(1), 67-75.
- Syarifah, E. F., and Emiliasari, R. N. (2019). Project-based learning to develop students' ability and creativity in writing narrative story. *Indonesian EFL Journal*, 5(1), 85-94.

Tukhtasinova, Z. M. (2022). Innovative approaches to the assessment of student project works. *Thematics Journal of English Language Teaching*, 6(1), 99-104

Wolf, M., Bailey, A., and Ballard, L. (2022). Aligning english language proficiency assessments to standards: conceptual and technical issues. *Tesol Quarterly*, 57(2), 670-685.