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The Impact of Digital Literacy Research Development Using Bibliometric Analysis

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Abstract

Digital literacy is the ability to understand, analyze and use digital information critically and responsibly is key to being able to make optimal use of technology and avoid its negative impacts. The background to this research is that digital literacy has become a hot issue recently. The large number of studies discussing digital literacy is proof that this issue is important to discuss. Bibliometrics is an analytical tool to find out how many publications discuss digital literacy issues. This study investigates the developmental impact of digital literacy research using bibliometric analysis. Based on bibliometric techniques, 262 publications were retrieved from Scopus from 2019-2023 to identify the most prolific, productive authors, most relevant journals, and most influential articles/documents in digital literacy research. In the analysis conducted through VOSviewer and Biblioshiny software, the results show that the most prolific authors are Lis Neubeck and Kevin Dadaczynski, who have published a total of 3 articles. In addition, the journal with the highest number of articles was the Journal of Medical Internet Research, with 13 articles related to digital literacy. The most influential article, judging by the number of citations related to the topic of digital literacy, is the work written by [1]. The findings of this study are useful for researchers to gain a comprehensive understanding of digital literacy providing new directions for future research. The significance of this research is that it can be a recommendation for a research map for researchers who focus on discussing digital literacy issues as well as recommendations for reading material for researchers as a reference for subsequent research related to digital literacy issues.

Keywords: Bibliometrics, Citation Analysis, Digital Literacy, VOSviewer, Biblioshiny.

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1. Introduction

Digital literacy is an integral part of everyday life. The ability to understand, analyze and use digital information critically and responsibly is key to being able to make optimal use of technology and avoid its negative impacts. Paul Gilster defines digital literacy as the ability to understand and operate information in a wide and diverse range of formats, accessed through computer devices [2], [3], [4].

Based on research that has been conducted [5], [6] a person who is digitally literate must have a comprehensive ability about ICT technology and emerging ICT technology and its efficient and effective use, have various skills (technical and cognitive) to disseminate, find digital information using well-designed search strategies and critically evaluate it and assess its quality [7], [8].

A survey conducted by the Ministry of Communication and Information Technology (Kominfo) and Katadata Insight Center (KIC), the status of digital literacy in Indonesia in 2023 has increased compared to the previous year. Indonesia's Digital Literacy Index in 2023 showed an overall increase with a score of 3.65, compared to 3.54 in 2022. This increase was driven by an increase in scores on the Digital Safety and Digital Ethics indicators [9], [10].

No	Name of Data	2021	2022	2023
1	Digital Skill	3,44	3,52	3,5
2	Digital Safety	3,1	3,12	3,29
3	Digital Ethics	3,53	3,68	3,99
4	Digital Culture	3,9	3,84	3,81
5	Total Indeks	3,49	3,54	3,65

Figure 1 National Digital Literacy Index 2022-2023

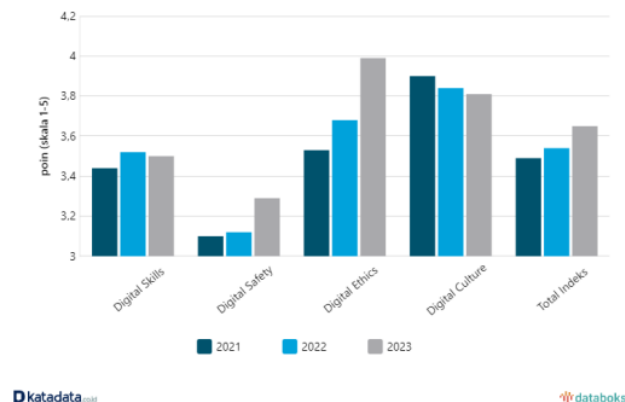


Figure 2 Digital Literacy Chart 2022-2023

The digital literacy index is measured using four main indicator categories: Digital Skills, Digital Safety, Digital Ethics, and Digital Culture [11], [12]. Based on the report, the overall score of Indonesia's Digital Literacy Index in 2023 is 3.65 on a scale of 1 to 5 points, which falls into the "high" category [13], [14]. The overall index number [22] has also continued to increase since 2021, as seen in the graph [15], [16].

Over the past decade there has been an annual increase in the number of journal publications related to "digital literacy" indexed in Scopus [17], [18]. There are a total of 3,996 keywords, 220 of which are interconnected and grouped into 9 clusters. The keyword "digital literacy" is the most frequently shared keyword term, with a total of 778 comments [19], [20].

Research related to this study is the trend of digital literacy research in 2012-2022 with a bibliometric approach. The results showed that scientific publications with the subject "digital literacy" on the Scopus database were 7,052 documents [21], [22].

Although there is an increasing trend of publications related to digital literacy in the last decade, there are several gaps that can be further explored [23] [24]. Existing research focuses more on trend mapping and keyword identification, but not many have examined the impact of the development of digital literacy research in depth. There are many analysis techniques in bibliometrics, namely citation analysis, co-citation analysis, bibliographic coupling [34], co-authorship analysis, and co-word analysis [25], [26].

Based on the description above, researchers are interested in conducting research on the impact of the development of digital literacy research using bibliometric analysis with a citation analysis approach [27], [28]. Citation analysis can help identify influential and sustainable research, and their contribution to the understanding and practice of digital literacy [29], [30].

Citation analysis is a library field study that observes citations in a scientific work [31], [32]. Citation analysis can be used to evaluate the usefulness of documents as well as the relationship between documents in the same subject and the relationship between authors and their work. Research related to citation analysis has been conducted at San José State University to analyze the publications of lecturers in the College of Business [33], [34], [35]. The results showed that faculty with more lecturers tended to produce fewer publications in total. Faculty with more work experience or tenure status were more likely to produce journal articles. Although the number of citations from the study was less compared to the previous study, it turned out that the lecturers in the study more often cited various types of materials compared to citing from the previous study [13].

In conducting bibliometric analysis of digital literacy research [15] publications indexed in the Scopus journal database, citation analysis was used to identify the most productive authors in digital literacy research, the most relevant journals in digital literacy research, and the most influential documents/articles in digital literacy research in the 2019-2023 period.

Through this research, it is expected that citation analysis in digital literacy research will provide significant benefits for researchers, librarians and the general public. This analysis helps identify prominent authors, renowned journals, and influential articles/papers in the field of digital literacy. This information can help researchers to find relevant and in-depth reference sources, for libraries this information can improve book collections and direct readers to the latest and most up-to-date information.

2. Research Methods

Bibliometrics is considered a statistical method used to handle scientific data, analyze the development of knowledge and identify the impact of research. With bibliometrics, researchers can get an objective and measurable picture of the contribution of scientific works to the advancement of knowledge in a particular field.

The bibliometric information in this study was taken from publications in Scopus, a trusted database for global research results. The publication data was exported to visualization software for further analysis. In order to make the data collected valid and reliable, researchers applied a rigorous literature review process. As a result, 262 publications with complete bibliometric information in Scopus were exported in CVS format after careful manual inspection.

Table 1. Data Selection Process.

Criteria	
Keyword	Digital Literacy
Database	Scopus
Search Within	Article title, abstract, keywords, Authors
Inclusion Criteria	1. Journals related to digital literacy 2. Journals with open-access status 3. Journals with more than 30 citations / citations 4. Publication between 2019 and 2023.
Exclusion Criteria	1. Journals that are not related to digital literacy 2. Journals with less than 30 citations 3. Publication between 2019 and 2023

Table 1 illustrates the data selection process. The keyword "Digital Literacy" was searched for in the title, abstract, and keywords. The time period was set for the last five years from 2019 to 2023. For the analysis of the results, researchers used VOSviewer [36] and Biblioshiny [37] which are specialized software applications for conducting bibliometric analysis.

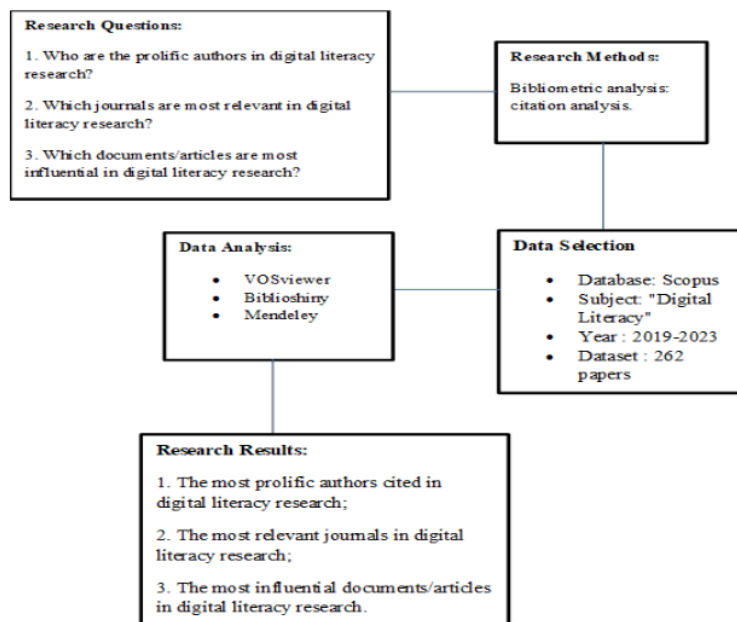


Figure 3 Research Stages

3. Results and Discussion

In this section, the author presents the results of the research through analysis of the data collected, which is organized according to the questions posed above.

3.1. Productive Authors in Digital Literacy Research

One way to measure the progress of digital literacy research is to identify prolific authors. Productive authors are those who have produced many high-quality publications in the field of digital literacy. Based on data obtained from the Scopus database with the criterion of total citations above 30, 1,155 authors were identified, including first authors and co-authors who contributed to digital literacy research. Table 2 shows a list of the top 10 authors on digital literacy topics.

Table 2: List of prolific authors

No	Author	Total Articles	Total Citations
1.	Lis Neubeck	3	269
2.	Kevin Dadaczynski	3	221
3.	Natasja MS de Groot	2	231
4.	Lina Mosch	2	141
5.	Crystal Fulton	2	139
6.	Urmimala Sarkar	2	136
7.	Konstantina Martzoukou	2	128
8.	Jie Li	1	384
9.	Graham Johnson	1	382
10.	Garry Falloon	1	321

Based on the table above, it can be seen that Lis Neubeck and Kevin Dadaczynski are the most productive authors in digital literacy research, with a total of 3 articles. The results also show that Jie Li and Graham Johnson are the authors with the most total citations in digital literacy research, namely 384 and 382 citations. This study also shows that there are many other authors who actively contribute to digital literacy research. This shows that research in this field is growing and attracting the interest of many researchers.

3.2. Most Relevant Journals on Digital Literacy Research

The most relevant journals can be seen based on the number of articles published, from the data obtained from the Scopus database identified 171 journals that have published digital literacy research articles. Table 3 lists the 10 most relevant journals and shows that the journal with the most total articles is Journal of Medical Internet Research, with 13 articles.

Table 3 Top 10 Most Relevant Journals

No	Journal Name	Total Articles	Total Citations
1.	Journal of Medical Internet Research	13	974
2.	International Journal of Environmental Research and Public Health	11	1012
3.	Sustainability (Switzerland)	10	466
4.	Comunicar	6	319
5.	Media and Communication	6	283
6.	Computers and Education	6	254
7.	Reading Research Quarterly	5	293
8.	JMIR mHealth and uHealth	5	293
9.	Information Communication and Society	4	188
10.	Education and Information Technologies	4	174

The table above shows that the 10 most relevant journals on digital literacy research come from various disciplines, including medicine, public health, communication, education, information technology and computer science. This shows that digital literacy is a complex issue that requires a multidisciplinary approach.

Based on the citation analysis, the journal "International Journal of Environmental Research and Public Health" topped the list with 1012 citations. This shows that digital literacy research in the context of public health is a very influential field.

3.3. Most influential documents/articles in digital literacy research

The impact of digital literacy research can be measured by the number of citations it receives. authors with the most citations are the most influential on digital literacy research topics [38]. Table 4 illustrates the 15 most cited documents, including author, title, source and total citations.

Table 4. Most Cited Documents

No	Title	Author (Year)	Total Citations
1	The impact of digital finance on household consumption: Evidence from China	Li et al (2020)	384
2	Gauging the psychological impact of covid-19 on healthcare workers: A digital learning package	Blake et al (2020)	382
3	From digital literacy to digital competence: the teacher digital competency (TDC) framework	Fallon (2020)	321
4	Digitalizing digital transformation paths in the business model of smes during the covid-19 pandemic	Priyono et al (2020)	294
5	Digital media literacy intervention increases discernment between mainstream and false news in the United States and India	Guess et al (2020)	272
6	Can Going Digital Become a Necessity: Ensuring Older Adults' Needs for Information, Services, and Digital Inclusion During COVID-19	Xie et al (2020)	197
7	Towards a radical digital citizenship in digital education	Emejulu & Mc Gregor (2019)	132
8	Engaging people learning from digital media outside of school: The informal meets the formal	Pereira et al (2019)	108
9	Digital transformation in financial services provision: a Nigerian perspective to the adoption of chatbot	Abdulquadri et al (2021)	91
10	Digital Rights, Digital Citizenship and Digital Literacy: What's the Difference?	Pangrazio & Sefton-Green (2021)	78
11	An approach to digital literacy through the integration of media and information literacy	Learning (2019)	63
12	Evaluating the quality of health information in a digitalizing digital ecosystem	Keselman et al (2019)	51
13	Propaganda in an Age of Algorithmic Personalization: Expanding Literacy Research and Practice	Hobbs (2020)	44
14	Digital competence in higher education: Students' perception and personal factors	Zhao et al (2021)	36
15	Development of a framework for digital literacy	Feerrar (2019)	30

Based on the table above, the most cited article related to the topic of digital literacy is the article written by [39], [40]. The article was cited 384 times. The article published in the journal Economic Modeling is entitled The impact of digital finance on household consumption: Evidence from China. The article explains the use of various econometric methods to overcome endogeneity and selectivity problems. The relevance of digital literacy in the field of digital finance with a high number of citations shows that this article makes an important contribution and is the main reference in related research. This makes it the most impactful author in the field of digital literacy, followed by [41], [42] with 382 citations. Overall, other studies cover a wide range of topics related to the impact of digital technologies on various aspects of society, including education, health, finance and digital media.

4. Conclusion

The results of bibliometric analysis conducted using Vosviewer and CiteSpace revealed that research on digital literacy has experienced significant development in recent years. This is characterized by an increase in the number of researchers, journals and articles published in this field. It can also be seen that journals with a medical scope publish more articles on digital literacy. Overall, the rapid development of digital literacy research and significant contributions from leading journals and researchers reflect the importance of digital literacy in academic and practical contexts. It also shows that digital literacy is a multidisciplinary field that covers various aspects of life, including health, finance and the environment. This trend is expected to continue as technology advances and the need for a deeper digital understanding in society.

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