

A Bibliometric Study of Publication- Citations in a Range of Journal Articles

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Abstract - A popular method for doing comprehensive study on large volumes of scientific data is bibliometric analysis. It helps us to explore the complex aspects of a particular field's progress while revealing its new possibilities. A bibliometric study of many journals published between 2019 and 2024 was carried out in order to evaluate the productivity and effect of this publication. According to the research, journals saw a notable increase in the quantity of articles and citations over the course of the five years. The most referenced paper topics are covered out of all the research topics that are covered in different publications. Despite having produced several articles that fit within the boundaries of the journal list, a thorough examination of these journals' ideas suggests that the researcher is confident about the journal's subfield for future publications.

Keywords: Bibliometric Analysis, Citation Analysis, Performance Analysis, Top Publication Count, Guideline

I. INTRODUCTION

The term "bibliometric analysis" refers to "a part of scientometrics for utilizing mathematical and statistical methods to analyse scientific activities in a research field." It is a cutting-edge technique that scholars all around the world are using to deduce patterns in the expansion of certain fields of knowledge. In systematic literature reviews, bibliometric research is a common and useful logical approach. It encompasses the quantitative evaluation of academic publications. Researchers and their work may be assessed for output and influence using bibliometric analysis. This is related to "performance analysis," which is one of the two main parts of a bibliometric analysis. The goal of bibliometric analysis is to provide a fair assessment of bibliometric data by collecting relevant information from databases and using efficient algorithms and quantitative methodologies in software. Review studies that make use of bibliometric analysis go beyond simply providing respondent profiles (such as socio-demographics) in quantitative research and identifying research profiles (such as publishing and citation trends, significant works, prolific contributors) in qualitative

research. As shown in Figure 1, researchers use five distinct approaches to bibliometric analysis.

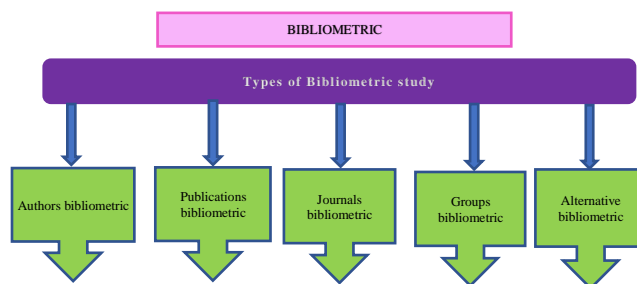


Fig. 1 Types of Bibliometric Analysis

The bibliometrics of authors provide details on their works published, citations, h-index, and patterns of authorship and co-authorship. The development of literature in any field may be better explored with its assistance. To illustrate the unique expansion of literature in any field of study, bibliometrics presents scholarly publications from the same field that have appeared in various journals or databases. Journal impact factor, field weighted citation impact, and source normalized impact per paper are all statistical measures provided by journal bibliometrics. Group metrics examine the citations and metrics of certain professions, such as American doctors or NYU professors. Academic institutions, hospitals, and other research-based organizations are examples of the kinds of entities that may serve as the basis for such research. Google Scholar, Scopus, and ResearchGate are some alternative measures that track how research and scientific findings are being used in contexts outside of academia. They are meant to supplement bibliometrics rather than replace it. ResearchGate, Google Scholar, and Scopus are a few examples of alternative metrics; these platforms provide data on reads, views, and downloads in addition to citation counts.

The primary goals of bibliometric research are complex. Its primary function is to assess the present state of research as well as its prospective and actual future development within

a certain field of study. The second benefit is that it compiles detailed information about scholarly works in a certain area, including names of authors, institutions, nations, and funding agencies. Thirdly, it's useful for seeing how an area of study has developed over time by revealing patterns in citations and publishing phases. The most-cited papers, nations, journals, and institutions in a certain area may be located with the use of bibliometric analysis, which also reveals the primary subjects of writers and their sources. Insights on publishing patterns, author productivity, and guideline compliance are provided by it, which also helps build the scientometric landscape of research specialties in a certain topic, including systematic reviews and meta-analyses. The last step is bibliometric analysis, which identifies important authors, institutions, nations, sources, and intellectual frameworks in a certain topic and then quantifies bibliometric performance indicators. To examine the trends in a field's publishing, citation, and cooperation habits, bibliometric analysis employs a variety of approaches. Figure 2 displays a few of the most popular approaches.

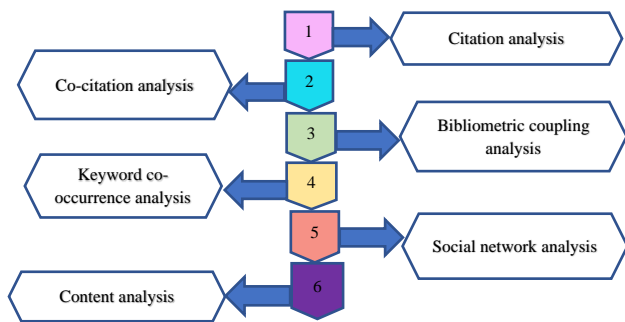


Fig. 2 Methods of Bibliometric Analysis

In bibliometric analysis, these are the approaches that we have used. In addition to assisting in the selection of potential future study paths in this area, this paper's thorough review and categorization of previous and present research is a great asset. Six journals are used in bibliometric analysis; they are, International Journal of Information Science and Systems, Journal of Internet Services and Information Security, Natural and Engineering Sciences, Journal of Wireless Mobile Networks, Ubiquitous Computing and Dependable Applications, Journal of VLSI Circuits and Systems and Archives for Technical Sciences. In the rest of the papers the above-mentioned journals are named as Article 1, Article 2, Article 3, Article 4, Article 5 and Article 6, respectively.

II. JOURNAL WISE LEADING PUBLICATION

The study articles were published with the participation of several authors, organizations, and nations worldwide; nevertheless, it is still unclear who the key contributors are and how much of an impact they have. By doing co-authorship analysis, we try to close these information gaps in this area.

2.1. Article 1

From 2019 through 2024, the top 20 publications published in the journal are shown in Table 1. Published quarterly,

Article 1 is a gold open access journal that undergoes double-blind peer review. Publications in the journal focus on advances and new findings in the field of information science and systems. It delves into a wide range of topics, including digital libraries, bibliographic control, knowledge organization, preservation and conservation, information processing and retrieval, information sources and services, community information systems, scientometrics and informetric, and information resource theory. There is an abundance of scientometric papers among the highest-ranked articles, however education and review are the primary areas of attention. The evolution and effect of information systems tailored to community requirements, as well as a variety of information sources and services, are also covered in the magazine. The goal of the journal is to serve as a reliable source for knowledge in these fields.

TABLE I TOP 20 RANKING PAPERS FROM ARTICLE 1 BASED ON CITATION METRICS

References	Rank	Year	Field
(Mathur et al., 2024)	1	2024	Education
(Indumathi & Sophia, 2019)	2	2022	Review
(Mozammel Bhuyan & Bipasha, 2022)	3	2022	Education
(Tunga, 2021)	4	2019	Review
(Muthuraja et al., 2021)	5	2021	Education
(Ejovwokoghene, 2022)	6	2021	Education
(Oza & Patel, 2020)	7	2019	Education
(Karthikeyan et al., 2019)	8	2019	Review
(Goswami & Pandya, 2021)	9	2019	Review
(Hulloli & Venkatesh, 2021)	10	2019	Education
(Konappa, 2020)	11	2019	Education
(Chinnadurai & Tamizhchelvan, 2019)	12	2019	Review
(Savanur, 2019)	13	2019	Review
(Yesmin & Abdul Karim, 2020)	14	2019	Review
(Balagopal, 2019)	15	2019	Education
(Nayana & Padmavathi, 2019)	16	2019	Review
(Okuonghae CLN, 2019)	17	2019	Education
(Jayasree & Baby, 2019)	18	2019	Review
(Singha & Verma, 2019)	19	2019	Education
(Shivaraju & Sivasami, 2019)	20	2019	Education

2.2. Article 2

Threats, modelling, and assessment are just a few of the topics covered in this comprehensive guide on Internet security protocols and challenges. Additionally, it covers the following topics: key management, authentication, access control, identity management, anonymity, secrecy, and trust; public key cryptography; intrusion/virus/malware detection; content protection; as well as computer forensics and network forensics. Security requirements are also covered. The top 20 published papers according to top citations are presented in Table 2.

TABLE II TOP 10 PUBLICATION OF ARTICLE 2 JOURNAL OVER 2019-2024

References	Rank	Year	Field
(Alizadeh et al., 2020)	1	2020	IoT
(Manipriya et al., 2020)	2	2020	Networking
(Trisiana & Utami, 2022)	3	2022	Networking
(Liloja & Ranjana, 2023)	4	2023	Machine learning
(Elshrkawey et al., 2021)	5	2021	Network Security
(Hossain et al., 2019)	6	2019	Network Security
(Suganthi & Prabha, 2022)	7	2023	Networking
(Wasin et al., 2024)	8	2024	Network Security
(Salman & Banu, 2023)	9	2023	Machine Learning
(Lee et al., 2022)	10	2022	Machine Learning

2.3. Article 3

Single-blind peer-reviewed articles on a wide range of subjects are published in article - 3. These include conservation biology, environmental pollution, biodiversity (both marine and freshwater), aquaculture, alien invasion, molecular ecology, biotechnology, food processing, biosensors, biomedicine, natural medicine, genetic algorithms, AI, innovative computations, machine learning, deep learning, and materials in engineering science. Essays, case studies, reviews, and original research pieces are all welcome. The top 20 rated journal publications from 2019 to 2024 are shown in Table 3. It follows that biotechnology and fisheries are two of the most frequently researched fields in academic journals.

TABLE III TOP 20 PUBLICATION OF ARTICLE 3 JOURNAL PAPERS OVER 2019-2024

Ref	Rank	Year	Field
(Aydın & Çek-Yılmaz, 2019)	1	2019	Fisheries
(Doğdu et al., 2019)	2	2019	Biotechnology
(Sayılğan et al., 2019)	3	2019	Biosensors
(Van et al., 2019)	4	2019	Fisheries
(gökhan et al., 2023)	5	2023	Biosensors
(Partal et al., 2019)	6	2019	Marine And Freshwater Biodiversity
(Turan & Ergenler, 2019)	7	2019	Biology
(Turan et al., 2023)	8	2019	Fisheries
(Yağlıoğlu et al., 2023)	9	2023	Fisheries
(Sungur & Azak, 2019)	10	2019	Food Processing
(Bal & Türker, 2019)	11	2019	Biotechnology
(Mifsud & Vella, 2019)	12	2019	Aquaculture
(Sönmez et al., 2019)	13	2019	Aquaculture
(Ayas et al., 2019)	14	2019	Biodiversity
(Turan et al., 2019)	15	2019	Aquaculture
(Uçar & Uçar, 2019)	16	2019	Machine Learning
(Koçer et al., 2019)	17	2019	Environmental Pollution
(Ozyilmaz, 2019)	18	2019	Environmental Pollution
(Ozyilmaz, 2023)	19	2023	Biotechnology
(Gurlek et al., 2019)	20	2019	Marine And Freshwater Biodiversity

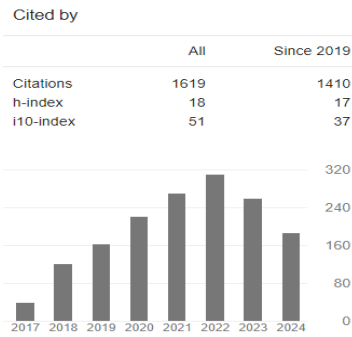


Fig. 3 Google Scholar-Based Citation Analysis of Article - 3

The Figure 3 that is based on the bibliometric data from Google Scholar illustrates the citation score analysis that has been performed on the journal over the duration of the prior eight years. As a result of this, we are able to demonstrate that the journal has received the largest number of citations from the year 2022 in comparison to the other years. The citations that it has received in the current year are superior than those that it had received at the beginning of the year 2017.

2.4. Article 4

A wide range of subjects pertaining to energy efficient networks, wireless sensor networks, ad hoc networks, RFID technologies, mobile internet, mobile computer systems, and wireless mobile networks are covered in this pub semantic web, embedded systems, autonomous computing, programming paradigms, user interfaces, software infrastructures, parallel/distributed/grid computing, novel machine architectures, privacy, trust, insider threats, and emerging standards and technologies. Based on Table 4, it seems that the journal publishes the most articles pertaining to the protection of machine learning-based security issues. Second place went to the architecture model, while third place went to mobile computing.

TABLE IV TOP 20 RANK ARTICLE 4'S- PUBLISHED PAPER OVER THE YEAR OF 2019-2020

Ref	Rank	Year	Field
(Angin et al., 2020)	1	2020	Network Architecture
(Johnson et al., 2020)	2	2020	Security Issues
(Abhishta et al., 2020)	3	2020	Security Issues
(Kasturi et al., 2020)	4	2020	Security Issues
(Wong & Yiu, 2020)	5	2020	Security Issues
(Khasawneh & Khasawneh, 2023)	6	2023	Mobile Computing Systems
(Caputo et al., 2020)	7	2022	Security Issues
(Nowaczewski & Mazurczyk, 2020)	8	2020	Network Architecture
(Kholod et al., 2020)	9	2020	Energy Efficient Network
(La Marra et al., 2020)	10	2022	Mobile Model
(Park et al., 2020)	11	2020	Security Issues
(Srinadi et al., 2023)	12	2023	Machine Learning
(Baranov et al., 2020)	13	2020	Wireless Sensors
(Duong et al., 2020)	14	2020	Security
(Khedr et al., 2020)	15	2020	Energy Efficient
(Solikin & Darmawan, 2023)	16	2023	Machine Learning
(Yus, 2023)	17	2023	Machine Learning
(Loh et al., 2020)	18	2020	Machine Learning
(Caviglione et al., 2021)	19	2021	Data Privacy
(Kioskli et al., 2022)	20	2022	Security

2.5. Article 5

An open-access, peer-reviewed publication, article - 5 promotes partnerships between academic institutions and businesses by publishing research on cutting-edge VLSI design and circuits ideas. In this concise overview, you will learn about computer architecture, computational methodologies, digital logic, embedded systems, electrical design automation tools, verification, and very large-scale integration design automation, among other topics. Designing low power VLSI circuits, mixed-signal circuits, integrating MEMS and ICs, nanotechnology, printed circuit board layout, procedures, devices, simulation of circuits, radio frequency (RF) and bio-MEMS, thermal design, solid-state electronics, systems on programmable chips, simulation, synthesis, verification, and testing of VLSI systems are all covered as well. The primary focus of the journal is on very large-scale integration design and digital logic. The specifics of the top 20 rated articles' publications are shown in Table 5.

TABLE V TOP 20 RANK OF ARTICLE 5-JOURNAL'S PUBLISHED PAPER OVER THE YEAR OF 2019-2020

Ref	Rank	Year	Field
(Mejail et al., 2022)	1	2022	VLSI Design Automation
(Hugh et al., 2022)	2	2022	Digital Logic
(Marangunic et al., 2022)	3	2022	Electronic Design Automation Tools
(Smith et al., 2022)	4	2022	Electronic Design Automation Tools
(Al-Jame et al., 2023)	5	2023	VLSI Design Automation
(Cheng & Wei, 2023)	6	2023	Digital Logic
(Rasanjani et al., 2023)	7	2023	Digital Logic
(Charabi & Farhani, 2023)	8	2023	VLSI Design Automation
(Zakaria & Zaki, 2023)	9	2023	Electronic Design Automation Tools
(Bosco et al., 2023)	10	2023	Digital Logic

2.6. Article 6

The Technical Institute Ltd. established the article - 6 in 2009 as a scientific research centre that publishes articles from all around the globe. The organization expanded its emphasis to include articles from other technical sciences and associated fields, in addition to research papers from the Institute and famous specialists from the former Yugoslavia. Figure 4 shows the number of abstract views and pdf downloads during the last three months of this journals. The top ten most cited articles published by the article - 6 journal over the course of the previous five years are shown in Table 5. The majority of researchers on this list are attracted to the topic of machine learning because it plays an important part in the technological sector in which they conduct their study.

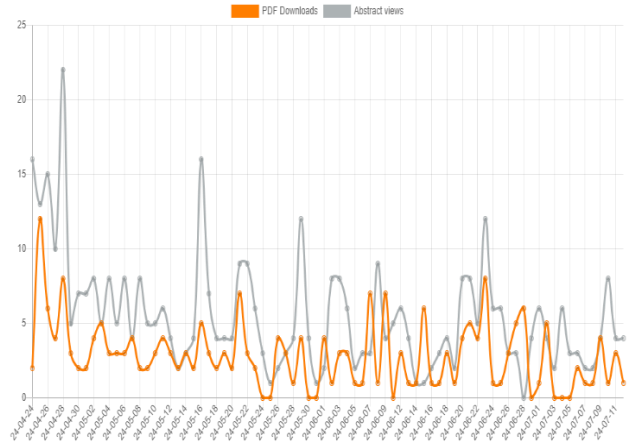


Fig. 4 Article 6 - Abstract and PDF Downloading Counts

TABLE 5 TOP 20 RANK OF ARTICLE-6 JOURNAL PUBLISHED PAPER OVER THE YEAR OF 2019-2020

Ref	Rank	Year	Field
(Stevovic et al., 2023)	1	2023	Energy Management
(Jelena & Srđan, 2023)	2	2023	Machine Learning
(Trivedi et al., 2023)	3	2023	Machine Learning
(Dijana & Jovana, 2023)	4	2023	Machine Learning
(Ramona & Danica, 2023)	5	2023	Optimization
(Asl & Asl, 2022)	6	2022	Optimization
(Anadel et al., 2022)	7	2022	Design
(Pešević et al., 2019)	8	2019	Quality Management
(Suljić, 2021)	9	2021	Design
(Dijana, 2023)	10	2023	Design

III. CONCLUSION

Overall, this study showed that bibliometric analysis is a solid scientific approach that may be helpful for both experienced academics and beginners looking to go further into a variety of complex and expansive business research topics. An overview of the main trends and hot subjects for study in different journals from 2019 to 2024 is provided in this article. The study also showed that the bibliometric methodology has become extremely popular recently because of the prevalence and utility of bibliometric databases and software, which make it easier to gather and evaluate vast amounts of scientific data for technical research, including in relatively new but extremely rich fields like nanotechnology, artificial intelligence, big data, and network security.

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