



## Research outputs in cyber media: A scientometric study

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### Abstract

The study is based on the Scientometrics analysis of 362 Research article published joint optimization of dynamic resource during the period of 2020-2024. This Study will review on to find out Year-wise, to find out keyword wise Contribution. To find out Document type Distribution the findings must reveal various aspects of the characteristics and patterns of contributions of the study.

**Keywords:** Cyber media, Journalism, group difference, news coverage, diversity issues

### Introduction

Scientometric is the field of study which concerns itself with measuring and analyzing scientific literature. Scientometric is a sub-field of Bibliometrics. Major research issues include the measurement of the impact of research papers and academic journals, the understanding of scientific citations, and the use of such measurements in policy and management contexts. In practice there is a significant overlap between Scientometric and other scientific fields such as information systems, information science, science of science policy, sociology of science, and met science. Critics have argued that over-reliance on Scientometric has created a system of perverse incentives, producing a perish environment that leads to low quality research

### Scientometric

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### Web of Science

Web of Science Core Collection content is uniquely selective and our indexing is uniquely consistent. Our independent and thorough editorial process ensures journal quality, while more than 50 years of consistent, accurate and complete indexing has created an unparalleled data structure. Every article and all cited references from every journal have been indexed, creating the most comprehensive and complete citation network to power both confident discovery and trusted assessment. Only the Web of Science Core Collection indexes every piece of content cover-to-cover, creating a complete and certain view of over 115 years of the highest-quality research.

### Cyber Media

Cyber media or online media or web media are all the Same. Nowadays, most communication takes place through the Internet and the World Wide Web through the various Websites. This form of communication is referred to as Cyber media or online media. Cyber came from cybernetics

### Cyberspace

Refers to the virtual computer world, and More specifically, is an electronic medium used to form a Global computer network to facilitate online Communication.

### Review of Literature

Khparde v s (2013) in his bibliometric analysis of research publication in dept. of chemistry Dr. Bam. University, fined that, the number of publications has increased consistently from the Year 1975 to the year 2012. 25% of the total publications have been made in 2009, 2010, and 2011. The majority of the publications are made with 4 authors the productivity of faculty in Large number of the 259 paper published. The majority of the research paper published in journal of heterocyclic chemistry. The productivity of the year in large number of 124 papers published.

Tupe, Khparde (2016) <sup>[5]</sup> in her Research Article Total 2131 periodicals in Physics published in 50th edition of Ulrich Periodical Directory, 2012 was considered to be the in that study. The Continents wise analysis of Periodicals in different continents, the European continent stood in The first place with 45.66% (973) and another 54.34% Periodicals published in North American, Asian, South American, and Australian & African Continent. 77 Countries published 2131 Physics Periodicals. The State wise distribution of periodicals 48 Periodicals Published in India.

English is Predominant Language of Periodicals Publication. Publishers' wise distribution of Periodicals to find ranking of the publisher and most prominent publishers in the field of physics Padme, Khparde (2016) <sup>[2]</sup> in his research article Online Information Review published 246 Research papers during the period of study i.e. from 2010 to 2014. The journal on an average has Published 49 research papers per year. In all five years on an average 8.60 most of the article Published in first issue of the journal in the month of January-February the authorship pattern of The articles

published during the period of study. Maximum numbers of articles were contributed by two authors 75 (30.49%). The degree of collaboration (C) during the overall 05 years (2010-2014) is 0.75. During the period of study (2010-2014). It is found that Department of Information Science, Bar Ian University, Ramat Gann, Israel & Wee Kim Wee School of Communication and Information, Nan yang Technological University, Singapore is on first rank with 13(5.28) Contributions in the total 246 articles. Devi and Lakshmi (2014) [4] conducted scientometric study. The scientists of JNTBGRI prefer Mostly Indian journals. Journal of Economic Taxonomic Botany tops the list with the highest Number of articles 50 (9.11%). India is the leading country with 54.67% of total journals.

**Objectives of the Study**

1. To find out Year-wise of publication.
2. To find out journal wise contribution.
3. To find out keyword wise Contribution.
4. To find out Document type Distribution.
5. To find out author contribution.

**Scope and Limitation of the Study**

The present study is based on the Scientometric for Cyber Media the present study is based on over all 362contributions during 2020-2024

**Data Collection**

The data was collected from the web of science database during period 2020-2024 the 362 articles were collected from web of science database systematically

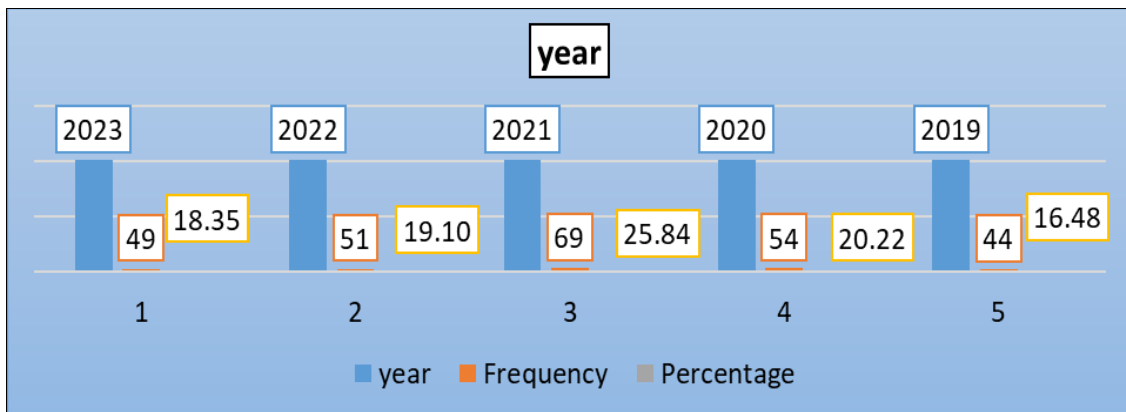
**Data Analysis and Interpretation**

Scientometric analysis is a branch of Bibliometrics. It is an important joint optimization of dynamic resource for understanding of the subject it aims at measuring the utility of documents and relationship between documents and fields.

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**Table 1:** To find out Year-wise of publication

Sr. No	Year	Frequency	Percentage
1	2020	57	15.75
2	2021	59	16.30
3	2022	72	19.89
4	2023	71	19.61
5	2024	103	28.45
Total		362	100



The Distribution of contributions (year-wise) is shown in Table No. 1 & Graph no. 1 out of the total 2 contributions majority of the contributions i.e. 44(16.48)2019

contributions were contributed in 2019 were as minimum contributions i.e. 69(25.84)2021 contributions were contributed in 2021

**Table 2:** To find out journal Wise Contribution.

Sr. No	Journal Table	Frequency	Percentage
1	Astrophysical Journal	16	4.42
2	Physical Review C	15	4.14
3	Profesional DE LA Informacion	15	4.14
4	Japanese journal OF Applied Physics	14	3.87
5	Monthly Notices of The Royal Astronomical Society	14	3.87
6	Physics of Fluids	10	2.76
7	Computational Materials Science	9	2.49
8	Physical Review D	8	2.21
9	Acta Materialia	7	1.93
10	Applied Physics Express	7	1.93
11	Physical Review B	7	1.93
12	Ieee Access	6	1.66
13	Journal of Chemical Physics	6	1.66
14	Progress of Theoretical and Experimental Physics	6	1.66
15	Macromolecules	5	1.38
16	Scientific Reports	5	1.38
17	CARBON	4	1.10
18	Journal of High Energy Physics	4	1.10

19	Physical Review Materials	4	1.10
20	Angewandte Chemie-International Edition	4	1.10
21	Astronomy & Astrophysics	4	1.10
22	Astrophysical Journal Letters	3	0.83
23	Flatchem	3	0.83
24	High Energy Density Physics	3	0.83
25	Inorganic Chemistry	3	0.83
26	International Journal of Heat and Fluid Flow	3	0.83
27	Journal of Applied Physics	3	0.83
28	Journal of Chemical Theory and Computation	3	0.83
29	Journal of Fluid Mechanics	3	0.83
30	Journal of the American Chemical Society	3	0.83
31	Journal of The Physical Society of Japan	3	0.83
32	Journalism Practice	3	0.83
33	Physical Review E	3	0.83
34	Physical Review Letters	3	0.83
35	Plos One	3	0.83
36	ACS Applied Nano Materials	2	0.55
37	ACS Catalysis	2	0.55
38	Chemical Physics Letters	2	0.55
39	Chemistry-A European Journal	2	0.55
40	Computers & Fluids	2	0.55
41	Energies	2	0.55
42	Frontiers in Psychiatry	2	0.55
43	IEICE Transactions on Information and Systems	2	0.55
44	International Journal of Hydrogen Energy	2	0.55
45	Journal of Computational and Applied Mathematics	2	0.55
46	Journal of Physical Chemistry C	2	0.55
47	Journal of Physical Chemistry Letters	2	0.55
48	Journal of Physics-Condensed Matter	2	0.55
49	Nature Communications	2	0.55
50	NPJ Computational Materials	2	0.55
51	Numerical Algorithms	2	0.55
52	Orthodontics & Craniofacial Research	2	0.55
53	PLOS Computational Biology	2	0.55
54	Small	2	0.55
55	Structural and Multidisciplinary Optimization	2	0.55
56	One Time Journal 1*110=110	110	30.39
	Total	362	100

It can be observed from Table No. 02 the journal wise distribution of contributors, the table 2 reveals that out of the total 362 contributors has contributed during 2020-2024, majority wise highest journal is an ASTROPHYSICAL JOURNAL 16(4.42) and the second is Physical Review C 15(4.14) and the last is Profesional DE LA Informacion 15(4.14)

**Table No 3. To find out Document Type Distribution**

Sr. No	Document Type	Frequency	Percentage
1	Article	348	96.13
2	Article; Early Access	6	1.66
3	Article; Proceedings Paper	3	0.83
5	Editorial Material	2	0.55
6	Review	2	0.55
4	Article; Retracted Publication	1	0.28
	Total	362	100

Table No 3. Document Type distribution of the contribution article is high. I.e. frequency 348 with 96.13%. And is lowest document type are correction i.e. 1 frequency with 0.28%.

**Table 4: To find out Author contribution and Distribution.**

Sr. No	Author	Frequency	Percentage
1	Gao, Yanlin	12	3.31
2	Maruyama, Mina	11	3.04
3	Hiejima, Toshihiko	7	1.93
4	Ishii, Akio	7	1.93
5	Myo, Takayuki	6	1.66
6	Wang, Sibio	6	1.66
7	Machida, Masahiro N.	5	1.38
8	Hirano, Shingo	4	1.10

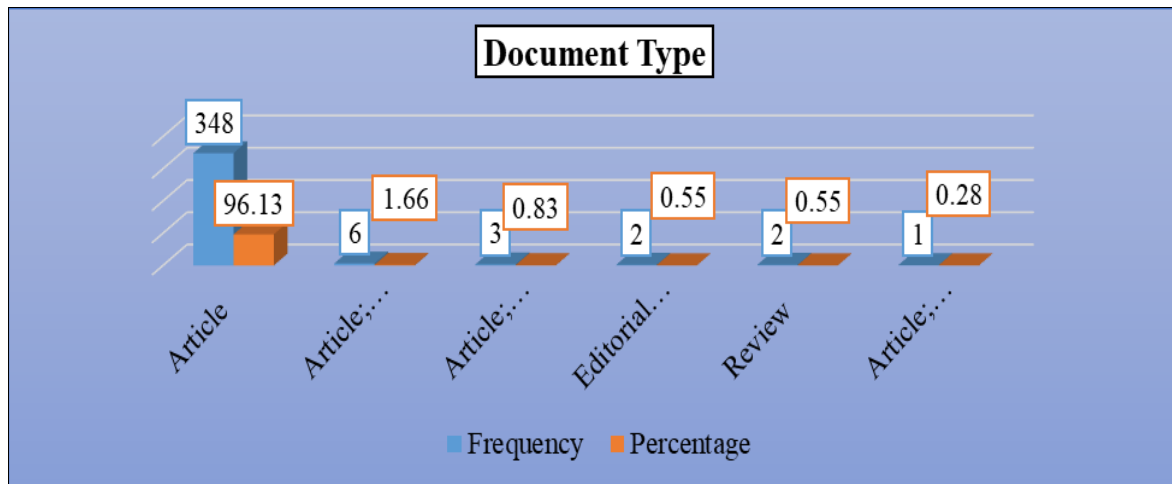
9	Miyamoto, Yoshiyuki	4	1.10
10	Okada, Susumu	4	1.10
11	Sinigaglia, F.	4	1.10
12	Hasegawa, M.	3	0.83
13	Hegazy, Muhammad	3	0.83
14	Yang, Yinan	3	0.83
15	Zhang, Shihao	3	0.83
16	Akiyama, Shinichiro	2	0.55
17	Dixit, Mayank	2	0.55
18	Du, Jun-Ping	2	0.55
19	Enriquez, John Isaac G.	2	0.55
20	Hashimoto, Taito	2	0.55
21	Hisama, Kaoru	2	0.55
22	Iida, Kei	2	0.55
23	Ikoma, Akishige	2	0.55
24	Imai, Masaya	2	0.55
25	Ishimaru, Daiki	2	0.55
26	Ito, Shin-ichi	2	0.55
27	Kawata, T.	2	0.55
28	Kobayashi, Masato	2	0.55
29	Koga, Shunta	2	0.55
30	Lei, Zhenzhe	2	0.55
31	Li, Yangen	2	0.55
32	Matsuda, Takeru	2	0.55
33	Matsukawa, Yuki	2	0.55
34	Meng, Fan-Shun	2	0.55
35	Mitsumoto, Kota	2	0.55
36	Miyatake, Yuto	2	0.55
37	Murashima, Takahiro	2	0.55
38	Nakagawa, Kosuke	2	0.55
39	Nakashima, Hiroyuki	2	0.55
40	Oku, Yuri	2	0.55
41	Okumura, Makoto	2	0.55
42	Roca-Fabrega, Santi	2	0.55
43	Saha, Sanjoy Kumar	2	0.55
44	Sano, Takayoshi	2	0.55
45	Sixto-Garcia, Jose	2	0.55
46	Soligo, Giovanni	2	0.55
47	Sultana, Nadia	2	0.55
48	Takizawa, Ryunosuke	2	0.55
49	Tanikawa, Chihiro	2	0.55
50	Tatsuoka, Fuminori	2	0.55
51	Tong, Hui	2	0.55
52	Tran, Hung Ba	2	0.55
53	Uchida, M.	2	0.55
54	Xin, Huaze	2	0.55
55	Zhang, Hui	2	0.55
56	One time author 1*200=200	200	55.25
	Total	362	100

The table no.4 Author contribution and Distribution It can be observed 2020-2024 year in the majority wise highest GAO, Yanlin P 5(1.87) and the lowest is Zhang, Hui 2(0.55) and all data is 362.

**Table 5:** To find out keyword wise Contribution.

Sr. No	keyword	Frequency	Percentage
1	INITIO	5	1.38
2	Cross-Sections	5	1.38
3	Hexagonal	5	1.38
4	Interaction	5	1.38
5	Monte-Carlo	5	1.38
6	Short-range	5	1.38
7	Angular-Momentum	4	1.10
8	Density-Functional	4	1.10
9	Dislocation	4	1.10
10	Finite-Difference	3	0.83
11	Molecular-Dynamics	3	0.83

12	Multiple	3	0.83
13	Numerical-Simulation	3	0.83
14	1st	3	0.83
15	3-Dimensional	3	0.83
16	Baryon	3	0.83
17	Borophene	2	0.55
18	Chiral	2	0.55
19	Collective	2	0.55
20	Covalent	2	0.55
21	Dynamics	2	0.55
22	Electronic-Properties	2	0.55
23	Electronic-Structure	2	0.55
24	Encapsulated	2	0.55
25	Exact	2	0.55
26	Flow	2	0.55
27	General-Approach	2	0.55
28	Graphene	2	0.55
29	Graphite	2	0.55
30	Laminar	2	0.55
31	Large-Scale	2	0.55
32	Lattice	2	0.55
33	Media	2	0.55
34	Membrane	2	0.55
35	Mixing	2	0.55
36	MOS2	2	0.55
37	News	2	0.55
38	Nucleon	2	0.55
39	Optical-Properties	2	0.55
40	Organic	2	0.55
41	Rotating	2	0.55
42	Self-Assembled	2	0.55
43	Smoothed	2	0.55
44	Social	2	0.55
45	Star-Forming	2	0.55
46	Topological	2	0.55
47	Total-Energy	2	0.55
48	Turbine	2	0.55
49	Virtual-Reality	2	0.55
50	4F	2	0.55
51	AB-Initio	2	0.55
52	Acetylcholine-Receptor	2	0.55
53	Algal	2	0.55
54	Algorithm	2	0.55
55	Alpha	2	0.55
56	Anomalous	2	0.55
57	Apatite	2	0.55
58	Artificial	2	0.55
59	Asymptotic	2	0.55
60	Audience	2	0.55
61	Ausm-Family	2	0.55
62	Autonomous	2	0.55
63	Average	2	0.55
64	Band-Gap	2	0.55
65	Band-Structure	2	0.55
66	One Time keyword 1*201=201	201	55.52
	Total	362	100



The table no.5 keyword contribution and Distribution It can be observed the majority wise highest INITIO, 5(1.38) and the lowest is BAND-STRUCTURE 2(0.55) it is observed year 2020-2024.

**Findings**

- The Distribution of contributions (year-wise) is shown in Table No. 1 & Graph no. 1 out of the total 2 contributions majority of the contributions i.e. 44(16.48)2019 contributions were contributed in 2019 were as minimum contributions i.e. 69(25.84)2021 contributions were contributed in 2021
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**Conclusion**

It consists of a variety of digital content, such as text, images, video, and audio. It is shared via the internet on electronic devices. Cyber media allows people and companies to reach a large public in real time. It can take many forms, including blogs, social media websites, podcasts, and news sites on the internet. Cyber media is the use of digital technology and platforms online to communicate information, entertain, or connect with a crowd. It consists of a variety of digital content, such as text, images, video, and audio. It is shared via the internet on electronic devices. Cyber media allows people and companies to reach a large public in real time. It can take many forms, including blogs, social media websites, podcasts, and news sites on the internet.

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