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**Citation Analysis in Journal of Advances in  
Library and Information Science (Online Journal)  
during 2016-2020**

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**Abstract**

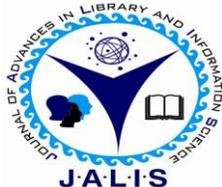
*Citation analysis of all the journal articles published in the Journal of Advances in Library and Information Science (Online Journal) during 2016-2020 is carried out. 244 articles, and twenty issue were published in the journal during five (5) years covered. Highest number of (72) articles were published in 2017 and followed the lowest number of (23) article were published in 2020. The journal contained 2308 citations and average number of citation per article is 9. In authorship pattern, two authored citations are dominant than others and it is 56.14 %. This analysis has been taken through the various analysis techniques such as year wise distribution of articles, authorship pattern, major branches (Subjects wise) of library and information science, geographic scattering, average length of articles, different biographical sources of citations etc. At the end the study is result, finding and concluded. .*

**Keywords**

Citation analysis; JALIS; Bibliometric Studies;  
Geographic scattering; Authorship Patter; Library and  
Information Science (LIS).

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## 1. Introduction

Citation analysis is one form of Bibliometric study. It makes use of bibliographic references which are essential part of the primary scientific communication. The technique of citation analysis involves the process of collection, counting and analysis and interpretations of citations given in various types of literature and, thereby, helps in identification of significant sources of information, individuals, institutions and other aggregates of scientific activities. Citation analysis as a tool is used to identify the core references in a subject by counting the citations appended at the end of each scientific article. The author of a paper customarily presents references as authentic source of information having research value or to substantiate the point of view of ideas expressed in the cited paper.<sup>4</sup>

Analysis of cited papers is used as a measure of impact of individual articles, periodicals, authors, etc. and has become accepted practice in almost all scientific communications and is a well-established part of information research. Among the different branches of library and Information science Citation analysis is a significant one. Citation analysis is defined as an activity involving analysis of the citations or references, which forms a part of the primary scientific communication. When the scientific paper, makes reference to another scientific paper, the later has been cited by the former as a source of information as the support for the point of view as authority for the statements of facts etc.

Citation analysis is an important tool in quantitative studies of literature. Citation counts are useful for the purpose of determining core journals. Its use has now been extended to study the scope and structure of the subjects to cluster documents, to prepare a bibliography on a subject etc. Citation counts are frequently taken to be a measure of the use of journals. Citation analysis relating to the form of documents helps to determine the scope of the documents. The data are further helpful to identify the strength and weakness of collections. Ranking lists of journals derived from citation analysis are used for the selection and rejection of individual items. Statistical analysis of citation is a better measurement than bibliographic distribution.

For the purpose of the study the *Journal of Advances in Library and Information Science of India* was selected because it is very popular among India academic librarians and it opens great avenues for

India LIS researchers to publish their research. The Journal of the Advances in Library and Information Science of India is a four issue per years an international peer-reviewed journal published by JALIS, Tamilnadu (ISSN:2277-2219). The main aim of the Journal of Advances in Library and Information Science (JALIS) is to publish original research articles, and studies that describe the latest research and developments in the area of library and information science. The journal publishes article based that are judged by critical reviewers, to make substantial contribution in the field of LIS. The journal covers all area of Library and Information Science, technology and interdisciplinary research.

The article reports the results of citation analysis of "Journal of Advances in Library and Information Science (An International Peer-Reviewed Journal - Online -ISSN: 2277-2219) journal published during the period 2016-2020.

## 2. Review of Literature

Kumar & Reddy (2012)<sup>7</sup>This study Citations in Master's degree dissertations submitted to the Department of Library and Information Science, Sri Venkateswara University, Tirupathi during the period 2000 - 2007, were analyzed for finding possible relationships between citing, citing articles and bibliographic forms. Frequency and percentage distributions (presented in charts, tables and graphs) and measures of central tendency were used to analyses data. Findings showed that journals were the most utilized reference materials in the dissertations. Also, library science in general had the highest number of citations followed by library management and cataloguing. The lowest numbers of citations were from education, literature and social sciences respectively. The findings from this study could serve as a user study with implications for collection, development and user services designing in libraries. Ramesh Kuri & Venugopal Hajje (2014)<sup>8</sup> this study analyses the citations cited in the "Pearl" Journal during 2009-2011. This analysis has been taken through the various analysis techniques such as Authorship pattern, Domain wise distribution of citations, Age of citations, most prominent journals cited and different sources of citations etc. At the end the study is concluded with some recommendations. Jaba Moni Das & Dipen Deka (2020)<sup>6</sup> this study applies the citation analysis method to analyze Library and Information Science (LIS) doctoral theses submitted to Manipur University during 1989-2017. A total of 2,725 citations appended to 27 LIS

doctoral theses examined for bibliographic forms, authorship pattern, and their collaboration level, chronological-wise distribution, the applicability of Bradford's law, rank-wise list, core journal list, country-wise list. The study finds that journals are the most cited resources, followed by books. Single-authored works are found dominant in both journal and book citations. The country-wise distribution of journals reveals that 412 citations (38.52%) were from India, followed by the UK with 275 citations (25.74%) and the USA with 271 citations (25.37%). Swapan Kumar Patra (2014)<sup>10</sup> this study Indian library and information science (LIS) journals are not indexed in Web of Science (WoS) database and lately Scopus® database of Elsevier B.V. has indexed three Indian LIS journals. Hence, Google Scholar (GS) is the only available global database for the citation analysis of Indian LIS journals. Based on GS, this study has traced the citation and authorship patterns of selected LIS journals. Although, GS covers wide spectrum of scholarly literature worldwide, this study found that Indian LIS journals have low visibility even in GS database. In terms of citations, multiple-authored articles generally got more citations than the single-authored articles. This study suggests LIS researchers to increase collaborations for better visibility of their research. Sinnarkar, (2003)<sup>9</sup> a citation database of scientists belonging to National Environmental Engineering Research Institute has been developed in CDS-ISIS for the creation of an institutional database of citations. The study, suggests that creation of such institutional databases can be a step towards the creation of an Indian Science Citation Index. Gooden (2001)<sup>5</sup> 28 studied 30 dissertations and generated a total of 3,704 citations. It was found that Journal articles were cited more frequently than monographs: 85.8% of the citations were journal articles and 8.4% of the citations were monographs. Das and Sen (2001)<sup>1</sup> 29 analyzed 1049 citations appended to 34 research articles of *Journal of Biosciences*; 2000. It was found that out of the total citation, journal articles comprises 85.89% and monographs 10.1%. Deshmukh (2011)<sup>2</sup> this studies the Analysis of 4141 citations appended to articles in volumes 44 to 57 of *Annals of Library and Information Studies* shows that the source journal is the most cited. The half-life of LIS literature is found to be 9 years for journals and 14 years for books respectively. The core periodicals as per the 4141 citations have been listed according to the productivity. Garg, K. C. & Bebi (2014)<sup>3</sup> The studies the analysis of the number of articles published in *Annals of Library and Information Studies (ALIS)* and *DESIDOC Journal of Library and Information*

Technology (DJLIT) during 2010-2013 and the citations obtained by these articles during 2010-2014 (April) using Google. The study develops immediacy index and impact factor of the two journals, besides, identifying the highly cited authors/papers. Findings reveal that DJLIT published more papers than ALIS and also received more citations. However, citation per paper for both the journals is almost equal. DJLIT have a better immediacy index than ALIS. Impact factor of both the journals was less than one in 2012; however, it increased in 2013 and was more than one in 2013.

### 3. Objectives of study:

The specific objectives of the present study are to know

1. To make an analysis of article citations published in Journal of Advances in Library and Information Science.
2. To study the citation pattern of articles.
3. To study the year wise distribution of articles and the average number of contributions per volumes.
4. To examine the authorship patterns
5. To examine the year Wise Distributions of Citations
6. The distribution of citations in the subjects wise of library and information science.
7. To study the Geographic scattering of cited journals.
8. To examine the average length of articles.
9. To investigate the various bibliographical sources cited by authors.

### 4. Scope and Limitation:

The scope of the present study is restricted to the field of library and Information science research. The source journals selected for the study was "Journal of Advances in Library and Information Science (An International Peer-Reviewed Journal - Online –ISSN: 2277-2219) " an important vehicle of library and Information science Research. All the volumes of the journal published during the period 2016-2020 (i.e. 05 years) have been taken up for the study.

### 5. Methodology

For the purpose of this study, the "Journal of Advances in Library and Information Science (An International Peer-Reviewed Journal - Online –ISSN: 2277-2219) " has been selected as the source journal. For the analysis of the study, Five volumes / Twenty

Issue (V-5, I-20) containing 20 issues of "Journal of Advances in Library and Information Science " published during the year 2016 to 2020 have been taken up for evaluation. Twenty issues pertaining to five volumes from 2016 to 2020 were scanned and relevant details of the citations at the end of each place were noted for the study.

The details with regard to each published article such as number of articles in each issue of the journal, number of authors, name of authors, place of authors, number of references and their forms, number of pages, etc., were recorded and analyzed for making observations. The data were collected; organized and analyzed using MS-Excel spreadsheets. The recorded data was tabulated for analysis. The tables and graphs were generated in accordance with the objectives of the study. The gathered data after due scrutiny, were tabulated and processed for analysis and subsequent interpretation.

### 6. Result and Discussion

**Table 1:** Number of Article per Years

Sir No.	Year of Publication	Volume No.	Total No Issue	No. of Articles	Per centage
1	2016	5	4	63	25.81
2	2017	6	4	72	29.50
3	2018	7	4	56	22.95
4	2019	8	4	30	12.29
5	2020	9	4	23	9.42
Total No.		5	20	244	100

Table 1 shows the overall Year wise distributions of articles to the Journal of Advances in Library and Information Science during the period 2016-2020. The table above reveals the number of articles published per volume of a year. Among total of 244 articles of all selected volumes Majority 72 (29.50%) of articles have come in Vol-6 (2017); followed to this the number declined to 63 (25.81%) in Volume 5 (2016), 56 (22.95) in Volume 7 (2018), 30 (12.29%) in Volume 8 (2019) and 23 (9.42%) in Volume 9 (2020) respectively.

**Table 2:** Number of Article per Issue

Year	Volume No. of Total Issues		Number of the Article/Contributions In each issue				Total No. of articles	%
			1	2	3	4		
2016	5	4	17	15	14	17	63	25.81
2017	6	4	15	15	18	24	72	29.50

2018	7	4	25	14	7	10	56	22.95
2019	8	4	6	8	8	8	30	12.29
2020	9	4	4	5	7	7	23	9.42
Total	20	67	57	54	66	244	100	

Table 2 shows the overall issue wise distributions of articles to the Journal of Advances in Library and Information Science during the period 2016-2020. The table above reveals the number of articles published per issue, per volume of a year.

**Table 3:** Year Wise Distributions of Citations

Year of Publication	Volume No.	No. of Articles	No. of Citations	Average Citations Per Contributions	Percentage%	
					Reference	Percentage
2016	5	63	768	12	768	33.27
2017	6	72	613	9	613	26.55
2018	7	56	495	8	495	21.44
2019	8	30	246	8	246	10.65
2020	9	23	186	8	186	8.05
Total No.	5	244	2308	9	2308	100

Table 3 shows the volume wise distribution of articles, the corresponding total number of citations and the average number of citations per articles. It is found that there is a total of 2308 citations distributed over 5 Volumes and 20 issues carrying a total of 244 articles. It is found that the rate of citations of articles

has witnessed a decreasing trend. The lowest number of average citations per articles is found in the years 2020. (Nearly 8-citation per article) and the highest number of average citations per articles is reported in the year 2016 (12 citation per articles).

**Table 4:** Citation Authorship Pattern of Years/Volume wise distributions

Authorship	Years/Volume					Total	Percentage %
	2016-5	2017-6	2018-7	2019-8	2020-9		
Single	15	22	16	9	5	67	27.45
Two authors	39	37	32	16	13	137	56.14
Three Authors	09	13	7	5	5	39	15.98
Four and more than four	00	00	1	00	00	01	0.40
Total	63	72	56	30	23	244	100

The study of authorship pattern and productivity is a significant factor in scientometric analysis. It has necessitated concentrating on the authorship pattern with a view to analyze the magnitude of research contribution in any discipline in general and journal namely Journal of Advances in Library and Information Science in particular. Table-5 shows the details about the authorship pattern. In above the table No. 5.4 indicates that majority of authors preferred to publish their research results in two authorship mode 137 (56.14 %) followed by single authorship mode (27.45 %) and three authorship

mode (15.98 %) while, articles published more than four and more than four authors (1 articles, 0.40 %) were quite negligible.

**Table 5 :**Subject wise distribution of citations

Sl. No	Subject Domains	No. of Contribution	%
1	Others LIS Domains	80	32.78
2	Scientometric studies	39	15.98
3	E-Resources	31	12.70
4	Bibliometric studies	20	8.19

5	Information and Communication Technology (ICT)	16	6.55
6	Library Resources & Services	16	6.55
7	Information Seeking Behavior	12	4.91
8	Citation Analysis	9	3.68
9	Information Literacy	6	2.45
10	Collection Development	4	1.63
11	LIS Education	3	1.22
12	Library Automation	2	0.81
13	Content Analysis	2	0.81
14	Webometric studies	2	0.81
15	Library Management	1	0.40
16	Knowledge management	1	0.40
<b>Total</b>		<b>244</b>	<b>100</b>

Subject wise distribution of cited works by authors in this journal is presented in the table above. The literature used by authors scattered among various subjects and disciplines. The authors consulted multidisciplinary literature in their research. The literature covered subjects like

Classification/Cataloguing, Knowledge management, Information Literacy, Bibliometric Studies, Library automation, ICT, Library Management, and LIS Education, Webometrics. Content analysis. Citation analysis, Scientometric studies, Knowledge management, Information Seeking Behavior etc. The table No. 5.5 shows it could be seen from a scrutiny of the table that a total of 244 contributions are spread over 16 subjects. It could be seen that the highest number of 80 (32.78 %) Others LIS Domains, followed by 39 (15.98) Scientometric studies, 31 (12.70%) E-Resources, 20 (8.19%) Bibliometric studies, 16 (6.55%) Information and Communication Technology (ICT) & Library Resources & Services, 12 (4.91) Information Seeking Behavior, 9 (3.68%) Citation Analysis, 6 (2.45%) Information Literacy, 4 (1.63%) Collection Development, 3 (1.22%) LIS Education, 2(0.81%) Library Automation, Content Analysis, Webometric studies, and last Library Management, Knowledge management 1 (0.40%).

**Table 6:** Distribution of forms of materials (Bibliographic form)

Bibliographical Forms	2016	2017	2018	2019	2020	Total	Percentage
Journal	486	445	386	172	136	1625	<b>70.40 %</b>
Online Search /Web Resources	67	76	43	33	32	251	<b>10.87 %</b>
Book	72	66	39	21	6	204	<b>8.83 %</b>
Conference /Seminar/Workshop Proceeding	51	54	22	15	6	148	<b>6.41 %</b>
Govt. Publi.	15	9	0	3	6	33	<b>1.42 %</b>
Thesis/Dissertation	13	12	3	0	3	31	<b>1.34 %</b>
Reference Sources	15	7	2	2	1	27	<b>1.16 %</b>
<b>Total</b>	<b>719</b>	<b>669</b>	<b>495</b>	<b>246</b>	<b>179</b>	<b>2308</b>	<b>100</b>

Table 6 depicts the distributions of bibliographical forms of citations. It represents the data on the distribution of cited citations by types in 20 issues, in five volume of the source journal with a total of 2308 citations. The authors refer to their research through various channels like Journal, Book, Conference /Seminar/Workshop Proceeding, Online Search /Web Resources. Thesis/Dissertation, Reference Sources, & Govt. Publi. The Journals rank first in order, showing 1625 (70.40 %) percent of the total number of citations, followed second position of the sources Online Search /Web Resources 251 (10.87 %). The source of Books comes to third in order sharing 204 (8.83 %), followed by Conference /Seminar/Workshop Proceeding 148 (6.41 %), Govt. Publi. 33(1.42 %), Thesis/Dissertation 31(1.34 %) & Reference Sources 27 (1.16 %).

**Table 7:** Geographical contribution of article (Indian and Foreign)

Geographical contribution	2016	2017	2018	2019	2020	Total	%
India	87	134	102	50	44	415	93.89
Foreign	10	2	5	8	2	27	6.10
<b>Total</b>	<b>97</b>	<b>136</b>	<b>107</b>	<b>58</b>	<b>46</b>	<b>442</b>	<b>100</b>

The table 7 above shows the geographical contribution of articles to the Journal of Advances in Library and Information Science during 2016 to 2020. The table shows evident that there is a total of 442 author's contribution in global level. In this study the share of contribution of India 415 author's contributions 93.89 % is found to be at the top.

**Table 8:**Geographical Distributing contribution (state wise)

Rank	State/UT	2016	2017	2018	2019	2020	Total	%
1	Tamil Nadu	46	79	62	34	31	252	60.72
2	Karnataka	23	20	18	8	9	78	18.79
3	Maharashtra	4	11	3	4	4	26	6.26
4	Telangana	1	2	5	--	--	8	1.92
5	A.P.	2	1	4	--	--	7	1.68
6	Uttar Pradesh	--	7	--	--	--	7	1.68
7	Mizoram	4	1	--	1	--	6	1.44
8	Puducherry	4	2	--	--	--	6	1.44
9	Kerala	2	1	2	--	--	5	1.20
10	West Bengal	--	1	--	3	--	4	0.98
11	Odisha	--	1	2	--	--	3	0.72
12	Delhi	1	2	--	--	--	3	0.72
13	Arunachal	--	2	--	--	--	2	0.48
14	Chhattisgarh	--	1	1	--	--	2	0.48
15	Punjab	--	--	2	--	--	2	0.48
16	Himachal P.	--	1	--	--	--	1	0.24
17	Jharkhand	--	--	1	--	--	1	0.24
18	Tripura	--	1	--	--	--	1	0.24
19	Jammu and K.	--	--	1	--	--	1	0.24
<b>Total</b>		87	134	102	50	44	415	100

Table 8 shows the state wise distribution of contributions in the 5 volume, 20 issue in five years published of the journal. The analysis shows that Tamil Nadu Scored 60.72 % with 252 number of contribution and ranked first. Among the other states Karnataka scored 18.79% with 78 contributions, Maharashtra scored 6.26 % with 26 contributors ranked second and third respectively. Between the score 0.48 % to 1.92 % with 55 contribution , Telangana 8 (1.92 %), A.P.& Uttar Pradesh 7(1.68%), Mizoram & Puducherry 6 ( 1.44% ) , Kerala 5 (1.20 % ) , West Bengal 4 (0.98%), Odisha & Delhi 3 (0.72), Arunachal Pradesh, Chhattisgarh & Punjab 2 (0.48).The lowest number i.e. 1(0.24 %) has been contributed by authors from Jharkhand, Himachal Pradesh, Tripura&Jammu and Kashmir each.

**Table 9:** Length of Articles

Years	Volume No	Total No. of Articles	Cumulative No. of Articles	Pages	Cumulative No. of page	Average pages per Articles	Cumulative Average of the No. of pages
2016	5	63	63	405	405	6.42	6.42
2017	6	72	135	449	854	6.23	6.25
2018	7	56	191	340	1194	6.07	6.25
2019	8	30	221	183	1177	6.10	6.32
2020	9	23	244	169	1546	7.34	6.33

The above Table No. 5.9 shows that the maximum average length of article is 7 pages which is reported for the cumulative issues of 2016 to 2018 while, the maximum average page of the article is 7 pages for the year 2020. Taking all the issues from 2016 to 2020 into account, it is found that Journal of Advances in Library and Information Science has accommodated on average nearly 7 pages per articles.

## 7. Finding

The findings of the study are summarized as:

- The contribution of articles to each volume of Journal of Advances in Library and Information Science is constantly decreasing from year to year.
- The average citation per article is 9.
- The average number nearly 7 pages per article.
- Two authored papers are found to be the highest followed by single authored and then three- authored papers.
- In regards to state productivity, Tamilnadu topped the list.
- In regards the subjects citation; 80 (32.78 %) Others LIS Domains, followed by 39 (15.98) Scientometric studies, 31 (12.70%) E-Resources, 20 (8.19%) Bibliometric studies.
- The overall bibliographic form wise distribution is calculated among 2308 citations, the Journal is cited as references are 1625 (70.40 %) and other form of references is 683 (29.59 %).This shows that the authors have mostly cited from the journals.

## 8. Conclusion

Journal of Advances in Library and Information Science earlier published that brought out its maiden issue in the year 2012 , is identified as one of the best international peer review referred journals in the field of Library and information Science in India with a publishing history of 10 years.A careful evaluation of

periodicals literature may indicate a complete picture of the discipline, the profession with which it represents and everything connected with them. The journal has been able to meet some of its expectations, despite the few observations made above, the journal has proved itself to be one of the good library and information science journal not only in India. During the study period 2017 Journal of

Advances in Library and Information Science has the maximum number 72 articles published. However, Journal of Advances in Library and Information Science have got the maximum number of citations 719 (31.15) in the year 2016. One important finding of this study is the generally two or more-authored articles are cited more than the single-authored articles. The collaborative research is more cited and perhaps more relevant than the single authored articles.

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