AN INTERNATIONAL PEER REVIEWED BILINGUAL E-JOURNAL OF LIBRARY AND INFORMATION SCIENCE Volume: 02, Issue: 03, May –June 2015 eISSN NO. 2394-2479

Impact Factor (IIFS) - 0.331

**STUDY** 

# REFERENCE AND USER SERVICES QUARTERLY: A SCIENTOMETRIC

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#### **Abstract**

The present study attempts on the Scientometric analysis of reference and user services quarterly study It is based on the references appended to reference and user services quarterly: a scientometric study during 2003-2012. The present study is based on 3605 references appended to 204 articles contributed by the authors in Reference and user services quarterly study. It was found that journals citations are more in number than the other citations. In authorship pattern, it was found that solo research is predominant then collaborative research. The degree of collaboration was calculated & it was found that the Multi Authorship trend is increasing gradually in reference and user services quarterly: a scientometric study. It was seen that researchers cite latest documents. The study shows the

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period of reference and user services quarterly :a scientometric study is 10 years

approximately.

Introduction

The aim of Scientometric is to provide quantitative characterization of scientific

activity; Scientometric is branch of library and information sciences. Because of the

particular importance of publication in scientific communities, it largely overlaps with

Bibliometrics, which is quantitative analysis of media in any written form. A complex of

quantitative mathematical and Statistical methods used to investigate such aspects as

research staff, and to define evolutionary & prospectus of science (Bonitz, 1999).

Scientometric is a very recent term. It is often used synonymously with the term

Bibliometrics. In addition to disciplines of measurement, Scientometric has strong

connection with information and library of science as well as science policy. In the year of

1970 we saw the development of Scientometric as on operational activity. Applying

Bibliometrics method to their own field, Scientometric confirm that their own domain,

standing evolved as heterogeneous field in topics and practices. The research has been done

on Scientometric analysis: Pramana Journal of Physics. Whereas the studies on

Scientometric analysis of journal were done by Balasubramanyam V. 1972; Shanmghan G.

1974; Chaudhari Maitreyi, 1980; Gupta Anita, 1981; Patnaik Hari Bhaskar, 1982;

Manavatar R, 1982; Suseela M, 1983; Vijayan B. 1983; Kandalhen U.S. 1983; Mahindre,

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1984; Mahindre Parkash Wamanrao, 1985; Kuchhadiya Devji Bhura, 1986; Om Prakash, 1995; James K N, 2009; Borah Basantha Kumar, 2009; Newman, 2010; Scharnhorst, 2012; Milojević & Leydesdorff, 2013; Gupta, B. M.; Kumbar, B. D.; Gupta, Ritu, 2013 Khaparde V.S.,2011,2012,2013,2014,Alhamadi Fawaz & Khaparde V.S.,2013,2014, Ambhore Sagar & Khaparde V.S.,2014,2015, Pratappure Sujata & Khaparde V.S.,2014,2015 In addition to this, a few books large number of research articles related to present study have been reviewed.

#### **Scientometrics:**

Scientometrics is the science of measuring and analyzing science. In practice,
Scientometrics is often done using Bibliometrics which is a measurement of the impact of
(scientific) publications.

#### **Scientometrics Analysis:**

According to (2006), wouters, a cart intension has always existed between academic Scientometrics and political /practical, Scientometrics, the letter of which has been described as a hybrid of social science and bur rerate expertise (2006)

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**E- Journal:** 

"A journal is publications in any medium issued in successive part's bearing numerical

or chronological designations and indented to be continued indefinitely (AACR2) - (WWW

library.iitkgp.ernet. in.): E- journal is defined as the grouping of information that is sent out

in electronic form with some regularity. It covers any serial or serial like publication

available in electronic format, which is produced published and distributed electronically

(Ramesh, yeranagula, 2003); A journal is academic in nature which is published using the

world wide web; such a journal usually uses internet technology refereeing of papers. Many

e- journals pride themselves on rapid refereeing and consequent repaid publication. (Gupta,

1998)

**Selected E- Journal** 

The journal of "Reference and User Services Quarterly is a by quarterly journals. The

journals was first published in the year 1993. This journal is a member of and subscribes to

the principles of the committee on publication Ethics e-access right include one going access

to volume year subscribed and temporary access back 1994 where available. Online access

back to volume one issue one is also available via the EBSCO Back files product.

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# **Objectives of the Study**

The main objectives of the present study are:

- 1. Average number of references per articles.
- 2. Relative Growth Rates [R(c)] and doubling time [Dt(c)] for publication
- 3. Relative Growth Rates [R(c)] and doubling time [Dt(c)] for citation.
- 4. Form wise Distribution of references
- 5. Authorship pattern
- 6. Year-Wise Degree of Collaboration
- 7. Organizational Contributions of Articles
- 8. Country wise distribution of references
- 9. Ranked List of Most Cited Journals
- 10. Chronological Distribution of Citation
- 11.Length of Articles.

## **Scope & Limitations**

The present study is based on over all 3605 citations appended to 204 articles, 10 volumes, 40 issues of the during 2003-2012

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**Data Collection** 

Data can be numerically expressed that is reference and user services quarterly :a

scientometric study quantified quantifiable or objective (Fasibs off and Dely, 1990) the data

was collected from 10 volumes, 40 issues of Reference and User services Quarterly

during 2003-2012. In all 3605 citations appended to 204 articles were further analyzed.

**Data Analysis** 

Analysis of information or data is one of the important part of any study Data analysis

is done for the purpose of huge volume of data is reduced into meaning full case report.

Analysis of total 3605 citations appended to 204 articles was done in the journal during 2003

to 2012. It was done by using various parameters like to identify the core journals to rank of

cited journal to rank. The cited author to find out geographical distribution of citations to

find out the types of cited documents, the data or information was presented in the form of

table and graphs to show the result prominently and easily.

The reference and user services quarterly :a scientometric study E-Journal is

published quarterly in a year.

The present study is based on 10 volumes 40 issues of E- Journal reference and user

services quarterly: a scientometric study during 2003-2012.

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The present chapter deals with the Scientometric analysis of different E- journals as per the following parameters.

- **1.** Average number of references per articles.
- 2. Relative Growth Rates [R(c)] and doubling time [Dt(c)] for publication
- **3.** Relative Growth Rates [R(c)] and doubling time [Dt(c)] for citation.
- **4.** Form wise Distribution of references
- **5.** Authorship pattern
- **6.** Year-Wise Degree of Collaboration
- 7. Organizational Contributions of Articles
- **8.** Country wise distribution of references
- 9. Ranked List of Most Cited Journals
- **10.**Chronological Distribution of Citation
- 11.Length of Articles.

## Average number of references per articles.

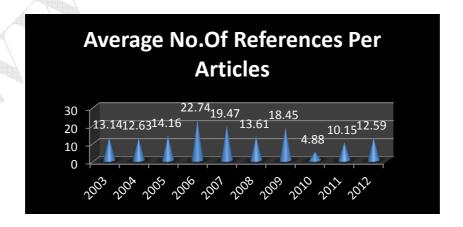
The Volume wise Distribution of contributions is shown in Table No.1

Table No. 1 Average number of references per articles

	Aver	age number of re	eferences per articles	
Year	Volume No.	No. of Issue	No. of Contribution	%
2003	24	19	334	13.14
2004	44	22	321	12.63
2005	45	21	360	14.16
2006	45-46	23	578	22.74
2007	46-47	31	495	19.47
2008	47-48	20	346	13.61
2009	48-49	28	469	18.45
2010	49-50	16	124	4.88
2011	51	18	258	10.15
2012	52	6	320	12.59
Г	Total	204	3605	100.00%

Table 1 depicts the detail regarding the number of articles published during 2003-2012 which was 204 and the total number of citations was 3605. Year wise analysis of citation shows that average number of citation per article is maximum i.e. (22.74) in the year 2006 and minimum i.e124 (4.8) in the year 2010.

Fig No.1 References Per Articles



## Relative growth rates [R(c)] and Doubling Time [Dt (C)] for publication:

The Relative Growth Rate (RGR) is a measure to study the increase in number of articles / pages per unit of articles / pages per unit time (Mahapatra,1985) and Doubling time is directly related to Relative Growth (RGR).it is the time required for articles / citations to become double of the existing amount.

Table 2: Relative growth rates and doubling time for publications:

	Relativ	ve Growth rates and	l doubli	ng time	for pu	blications	,	
YEAR	NO. OF ARTICLE	CUMULATIVE NO. OF ARTICLE	LOG 1P	LOG 2P	[R (P)]	MEAN [R (P)]	[Dt (P)]	MEAN [Dt (P)]
2003	19	19		2.94				
2004	22	41	2.94	3.71	0.77		1.11	
2005	21	62	3.71	4.13	0.41	0.45	1.11	0.81
2006	23	85	4.13	4.44	0.32		0.6	
2007	31	116	4.44	4.75	0.31		0.46	
2008	20	136	4.75	4.91	0.16		0.45	
2009	28	164	4.91	5.1	0.19		0.23	
2010	16	180	5.1	5.19	0.09	0.11	0.27	0.24
2011	18	198	5.19	5.29	0.1		0.13	
2012	6	204	5.29	5.32	0.03		0.14	

It can be noticed that the Relative Growth of publication [R(P)] decreased from the rate of 0.77 in 2003 to 0.03 in 2012. The mean relative growth for the first five years (i.e. 2003 to 2012) showed a growth rate of 0.45 whereas the mean relative growth for the last five years (i.e. 2008 to 2012) reduced to 0.11. The corresponding Doubling Time for different years

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[Dt(P)]gradually increased from 1 in 2003 to 0.45 in 2008 and it also shows that there is decrease in Doubling Time reduced to 6.07. Thus as the rate of growth of publication was decreased, the corresponding Doubling Time was increased. The Doubling Time for the first five years (i.e.2003 to 2012) was only 0.18 which was increased to 0.24 during last five years (i.e. 2008 to 2012). Thus as the rate of growth of publication was decreased; the corresponding Doubling Time was increased

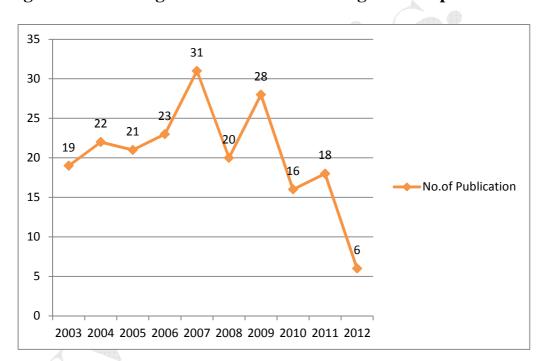


Fig No.2: Relative growth rates and doubling time for publications:

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## Relative growth rates [R(c)] and Doubling Time [Dt(C)] for citations:

The relative growth [R (C)] and Doubling time [Dt (C)] of citations were determined and provided in the Table.

Table 3: Relative growth rates and doubling time for Citations

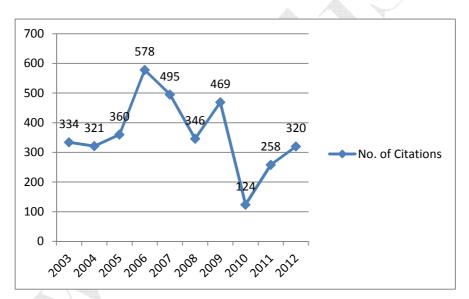
	Rela	tive Growth rates a	nd dou	bling ti	me for C	citations		
YEAR	NO. OF CITATION	CUMULATIVE NO. OF CITATION	LOG 1C	LOG 2C	[R (C)]	MEAN [R (C)]	[Dt (C)]	MEAN [Dt (C)]
2003	334	334		5.81	4	<i>)</i>		
2004	321	655	5.81	6.48	0.67		0.97	
2005	360	1015	6.48	6.92	0.44	0.45	0.63	0.66
2006	578	1593	6.92	7.37	0.45		0.65	
2007	495	2088	7.37	7.64	0.27		0.39	
2008	346	2434	7.64	7.80	0.15		0.22	
2009	469	2903	7.80	7.97	0.18		0.25	
2010	124	3027	7.97	8.02	0.04	0.11	0.06	0.16
2011	258	3285	8.02	8.10	0.08		0.12	
2012	320	3605	8.10	8.19	0.09		0.13	
	3605	A - 7						

It is observed from Table 3 in case of citations it was observed that the relative growth rate of citations was gradually decreased from 0.44 in 2003 to 0.09 in 2012. The mean Relative Growth [R(C)] of Citations during first five years (i.e. 2003 to 2012) was higher (0.45) than the last five years i.e. during 2008 to 2010(0.11).

The corresponding Doubling Time also indicate trend of 0.97 in 2003 to 0.13 in 2012. The mean Doubling Time [Dt( C )]during the half period (i.e. 2003 to 2012) was 0.66 which was increased to 0.16 during 2008 to 2012.

Thus the rate of growth of citations has been gradually reduced and corresponding Doubling Time has been increased.

Fig No. 3: Relative growth rates [R(c)] and Doubling Time [Dt(C)] for citations



#### Form wise distribution of references:

Journals, Book, Conference and other form of documents are cited in journal are shown in table no.4. The study regarding the Form Wise distributions of citations has been done in order to know the most dominant forms in which the information is cited.

Form wise Distribution Referen no. of **FORM**  $\mathbf{of}$ % 66.1 66.1 Journal 99.0 32.9 Book Conferenc 0.92 e **TOTAL** 

**Table No.4: Form wise distribution** 



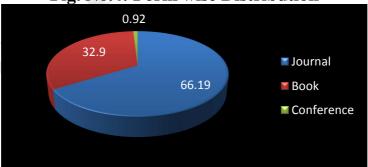


Table 4 gives form wise distribution of citation analysis and shows that of the total 3605 citation 2386 Citations are journal citation. It forms about 66.19% of the total. This is followed by other forms such as Conference 32.90%, Books (0.92%) etc. Where **hypothesis** no.1 is proved "Journal Citations are more in number than other citations".

# **Authorship pattern:**

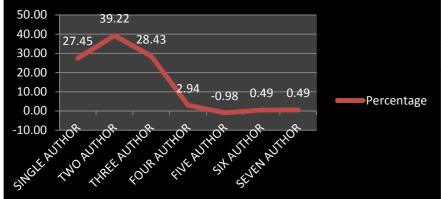
The authorship pattern is analyzed to determine the percentage of single and multiple authors.

**Table 5: Authorship pattern of the articles:** 

			Author	ship P	attern (	of Con	tributi	on's			
Authorshi p	2003	2004	2005	2006	2007	200 8	2009	2010	2011	2012	TOTA L
Single Author	3	5	6	3	11	3	11	3	11	0	56
%	15.7 9	22.7	28.5 7	13.0 4	35.4 8	15	39.2 9	18.7	61.1 1	0	27.45
Two Author	6	8	9	9	11	10	10	8	4	5	80
%	31.5	36.3 6	42.8 6	39.1	35.4	50	35.7 1	50	22.2	83.3	39.22
Three Author	9	7	6	7	9	6	6	4	3	1	58
%	47.3 7	31.8	28.5	30.4	29.0	30	21.4	25	16.6 7	16.6 7	28.43
Four Author	1	0	0	2	0	1	1	1	0		6
%	5.26	0	0	8.7	0	5	3.57	6.25	0	0	2.94
Five Author	0	1	0	1	0	0		0	0		2
%	0	-4.55	0	-4.35	0	0	0	0	0	0	-0.98
Six Author	0	1	0	0	0	0		0	0	0	1
%	0	4.55	0	0	0	0	0	0	0	0	0.49
Seven Author	0	0	0	1	0	0	0	0	0	0	1
%	0	0	0	4.35	0	0	0	0	0	0	0.49
TOTAL	19	22	21	23	31	20	28	16	18	6	204
%	9.31	10.7 8	10.3	11.2 7	15.2	9.8	13.7	7.84	8.82	2.94	100

Table 5 indicates that the details about the authorship pattern 56 articles (27.45%)out of 204 articles have been contributed by Two author 80 articles (39.22)by two authors and 58articles (28.43%)by three authors.6 (2.94%) articles by 5 authors,2(0.98%) articles by 6 and the lowest is 1 (0.49%) articles by 4 authors.

Fig. No.5: Authorship pattern



## **Degree of Author's collaboration:**

Various methods have been proposed to calculate the degree of research collaboration. Here, in this study the formula proposed by Subramanian (1983) has been used.

Formula,

$$C = \underbrace{Nm}$$

$$Nm + Ns$$

Where,

C = Degree of collaboration in a discipline

Nm = Number of multi authored articles in the discipline

Ns = Number of single authored articles in the discipline,

Here,

$$Nm = 151$$

$$Ns = 53$$

$$C = \underline{151} = 0.74$$
. Thus the degree of

Collaboration is C = 0.74.

So, in the study of collaboration during the overall 10 years (2003 - 2012) is 0.74.

# **Year Wise Degree of Contributions**

## **Table No.6 Year Wise Degree of Contributions**

			Year-	Wise Degree	of Contribu	ıtion's	
YEA R		TOTAL NO. OF AUTH OR		PERCENTA GE OF ARTICLE	NO. OF MULTI AUTHOR ED ARTICLE S	PERCENTA GES OF ARTICLES	DEGREE OF COLLABORAT ION
2003	19	46	3	1.47	16	7.84	0.84
2004	22	98	5	2.45	17	8.33	0.77
2005	21	42	3	1.47	18	8.82	0.86
2006	23	58	3	1.47	20	9.8	0.87
2007	31	60	11	5.39	20	9.8	0.65
2008	20	45	3	1.47	17	8.33	0.85
2009	28	35	11	5.39	17	8.33	0.61
2010	16	35	3	1.47	13	6.37	0.81
2011	18	35	11	5.39	7	3.43	0.39
2012	6	13	0	0	6	2.94	1
TOT AL	204	467	53	25.98	151	74.02	0.76

Table 6 shows that the single author articles are highest than multi author articles. The single author articles are highest in the 3 year 2007 i.e.11 (5.39%) and highest multi author articles are observed in the 2 year 2006 and 2007 i.e.20 (9.80%).

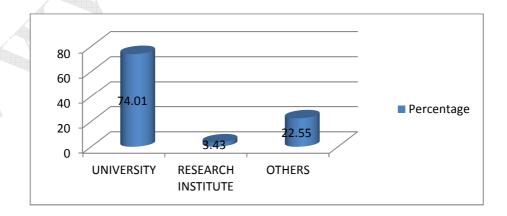
# **Organizational Contribution of Articles**

**Table 7: Organizational Contribution of Articles** 

		Or	ganiza	tion C	ontribu	itions	of Arti	icles			
						200					TOTA
	2003	2004	2005	2006	2007	8	2009	2010	2011	2012	L
UNIVERSIT	17	15	14	18	22	16	14	15	15	5	151
Y	89.4	68.1	66.6	78.2	70.9			93.7	83.3	83.3	
1	7	8	7	6	7	80	50	5	3	3	74.01
RESEARCH	0	0	0	0	3	0	1	1	2	0	7
INSTITUTE								A	11.1		
	0	0	0	0	9.68	0	3.57	6.25	1	0	3.43
	2	7	7	5	6	4	13	0	1	1	46
OTHERS	10.5	31.8	33.3	21.7	19.3		46.4			16.6	
	3	2	3	4	5	20	3	0	5.56	7	22.55
TOTAL	19	22	21	23	31	20	28	16	18	6	204

Authors from Universities are the major contributors with 151 (74.01) contribution from 2003-20112 and followed by other institute with 46(22.25) contribution. Where **Hypothesis No.3 is valid i.e.** "Universities are major contributors".

Fig No.7: Organizational Contribution of Articles



# **Country wise Distribution**

**Table No.8: Country wise Distribution** 

		T	able N	o.8: Co	ountry	Wise o	listrib	ution			
COUNTRY	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	TOTAL
Africa	1	2	3		3	3	3	1	2	1_(	19
Albany	1			3							4
Augustine					2				4		2
Bangladesh						1	1	1	1	1	5
Botswana	1	1	1	3	3	1	1	1	2		14
Brazil								A	2	1	3
China		1				1	1		1		4
Eritrea	1					A					1
Gambia								5	2		7
Ghana	1	3	3	1	3	1	2	1		1	16
Gordon				1 ,	2						3
Granada		1					<b>V</b> 1				2
Guatemala				4							0
Gulfstate			1	1							2
Ibadan		/	41					1	1		2
India			2		3	3	3				11
Kenya	1	1_	2	1		1					6
Lesotho					2		1				3
London	A					2					2
Malaysia	1	4	2					1	1		9
Mauritius		1				1					2
Namibia				1							1
Netherlands	1	1		1	3	1	1	1	1		10
Nigeria	2	3	1			2	2				10
Pakistan	1		1		1			1			4
Peru					1	1	1				3
Sierraleone			1	2	2		2		1		8
Southafrica	1										1
Swaziland		2	1				1				4

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Taiwan					1 40107 (11			1			1
Tanzania					2	1	3				6
Thailand					1			1			2
Trinidad											0
Tunisia				2				1			3
Turkey							1				1
Uganda										A (	0
Uk	5	1	1	5	1		3		3		19
Usa	2	1	2	2	2	1	1		1	2	14
	19	22	21	23	31	20	28	16	18	6	204

The country having a maximum number of 3605 citations appended in 204 articles have been considered. The study regarding the country wise distributions of citations has been done in order to know the most dominant countries in which the information is cited. Table reveals that USA India have 3605(100).

## **Ranked List of Most cited Journals:**

The journals Citations were further analyzed to establish a list of journals. Table 9 provide ranked list of the top most frequently cited journal.

**Table No.9: Ranked List of journals** 

		Ranked List of Journals		
SR.	RANK		NO. OF CITATIO	
NO.	NO.	NAME OF JOURNAL	N	<b>%</b>
1	1	Library Hi Tech	104	4.36
2	2	Online	100	4.19
3	3	College and Research Libraries	95	3.98
4	4	Academic Librarian	71	2.98
5	5	Computers and Libraries	70	2.93
6	6	Reference & User Services Quarterly	57	2.39
7	7	Journal of Academic Librarianship	42	1.76
8	8	RQ	37	1.55
9	8	The Reference Librarian	37	1.55
10	9	Information Development	34	1.42
11	10	Bulletin of the Medical Library Association	32	1.34
12	10	Public Libraries	32	1.34
13	11	Journal of Information Science	29	1.22
14	12	Library Review	24	1.01
		African Journal of Library, Archives and Information		
15	13	Science	22	0.92
16	13	Journal of Developmental Education	22	0.92
17	14	Journal of Documentation	19	0.8
		Journal of the American Society for Information		
18	15	Science	17	0.71
		Journal of the American Society for Information		
19	15	Science and Technology	17	0.71
20	15	Library Management	17	0.71

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21	16	Impact Factor (IIFS) - 0.331  Library Administration & Management	16	0.67
22	16	Libri	16	0.67
23	17	Research Strategies	15	0.63
24	18	Archie Library Quarterly	14	0.59
25	18	Library Hi Tech News	14	0.59
26	19	American Archivist	13	0.54
27	19	International Information and Library Review	13	0.54
28	19	·	13	0.54
		Medical Reference Services Quarterly  The Floatronic Library		0.54
29	19	The Electronic Library	13	
30	20	Bulletin of the Medical Library Association	12	0.5
31	20	Journal of Library Administration	12	0.5
32	21	New Library World	11	0.46
33	22	British Medical Journal	10	0.42
34	22	Decision Support Systems	10	0.42
35	22	Education for Information	10	0.42
36	22	Journal of Academic Librarianship	10	0.42
		Journal of Library & Information Services in Distance		
37	22	Learning	10	0.42
38	22	Library and Information Science Research	10	0.42
		Library Collections, Acquisitions and Technical		
39	22	Services	10	0.42
40	23	Library Journal	9	0.38
41	23	Nigerian Libraries	9	0.38
42	23	Teaching of Psychology	9	0.38
43	23	The Guardian	9	0.38
44	24	College and Research Libraries	8	0.34
45	24	Communications of the ACM	8	0.34
46	24	ESARBICA Journal	8	0.34
47	24	Journal of Library and Information Science	8	0.34
48	24	Libraries and the Academy	8	0.34
49	25	American Journal of Psychoanalysis	7	0.29
50	25	Collection Management	7	0.29
51	25	Information and Management	7	0.29
52	25	Information Technology and Libraries	7	0.29
53	25	Information Technology for Development	7	0.29
			<u>'</u>	J. <b>_</b> _/

AN INTERNATIONAL PEER REVIEWED BILINGUAL E-JOURNAL OF LIBRARY AND INFORMATION SCIENCE Volume: 02, Issue: 03, May –June 2015 eISSN NO. 2394-2479

Impact Factor (IIFS) - 0.331

55         25         International Journal of Mobile Communications         7         0.29           56         25         Journal of Librarianship and Information Science         7         0.29           57         25         Services         7         0.29           58         25         Library Trends         7         0.29           59         25         Management Journal         7         0.29           60         25         Online Information Review         7         0.29           61         25         Program         7         0.29           62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Adva	54	25	Impact Factor (IIFS) - 0.331 International Journal of Information Management	7	0.29
56         25         Journal of Librarianship and Information Science         7         0.29           57         25         Services         7         0.29           58         25         Library Trends         7         0.29           59         25         Management Journal         7         0.29           60         25         Online Information Review         7         0.29           61         25         Program         7         0.29           62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Librar			5	7	
Library Collections, Acquisitions, and Technical   7   0.29   58   25   Library Trends   7   0.29   59   25   Management Journal   7   0.29   60   25   Online Information Review   7   0.29   61   25   Program   7   0.29   62   25   Science and Technology Librarianshi   7   0.29   63   25   Science and Technology Librarianshi   7   0.29   64   26   American Library Journal   6   0.25   65   26   Interlending and Document Supply   6   0.25   66   26   Library Quarterly   6   0.25   67   26   MIS Quarterly   6   0.25   68   26   Telematics and Informatics   6   0.25   69   27   Advances in Librarianship   5   0.21   70   27   African Journal of Library and Information Science   5   0.21   72   27   Information Research   5   0.21   73   27   Information Research   5   0.21   74   27   Information Today   5   0.21   75   75   27   Science   5   0.21   76   27   Anagement Quarterly   5   0.21   77   27   Publishers Weekly   5   0.21   77   27   Publishers Weekly   5   0.21   77   27   Publishers Weekly   5   0.21   78   27   Reference Services Review   5   0.21   79   27   Special Libraries   5   0.21   79   27   28   28   Agricultural Economics   4   0.17   84   28   Electronic Networking Applications and Policy   4   0.17   85   28   Information Systems Journal   4   0.17   10	56	25	Journal of Librarianship and Information Science	7	0.29
57         25         Services         7         0.29           58         25         Library Trends         7         0.29           59         25         Management Journal         7         0.29           60         25         Online Information Review         7         0.29           61         25         Program         7         0.29           62         25         Sciente and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         Information Research <td></td> <td></td> <td>-</td> <td></td> <td></td>			-		
59         25         Management Journal         7         0.29           60         25         Online Information Review         7         0.29           61         25         Program         7         0.29           62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         Information Research         5         0.21           72         27         Information Today         5         0.21           75         27         Science<	57	25	_	7	0.29
60         25         Online Information Review         7         0.29           61         25         Program         7         0.29           62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         Information Research         5         0.21           72         27         Information Today         5         0.21           75         27	58	25	Library Trends	7	0.29
61         25         Program         7         0.29           62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         Information Research         5         0.21           72         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly	59	25	Management Journal	7	0.29
62         25         Science and Technology Librarianshi         7         0.29           63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IffLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterl	60	25	Online Information Review	7	0.29
63         25         Scientometrics         7         0.29           64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Today         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           78         27         Reference Services Review	61	25	Program	7	0.29
64         26         American Library Journal         6         0.25           65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Today         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           79         27         Special Libraries <td< td=""><td>62</td><td>25</td><td>Science and Technology Librarianshi</td><td>7</td><td>0.29</td></td<>	62	25	Science and Technology Librarianshi	7	0.29
65         26         Interlending and Document Supply         6         0.25           66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         Information Research         5         0.21           72         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5	63	25	Scientometrics	7	0.29
66         26         Library Quarterly         6         0.25           67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21	64	26	American Library Journal	6	0.25
67         26         MIS Quarterly         6         0.25           68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0	65	26	Interlending and Document Supply	6	0.25
68         26         Telematics and Informatics         6         0.25           69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4	66	26	Library Quarterly	6	0.25
69         27         Advances in Librarianship         5         0.21           70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4<	67	26	MIS Quarterly	6	0.25
70         27         African Journal of Library and Information Science         5         0.21           71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy	68	26	Telematics and Informatics	6	0.25
71         27         IFLA Journal         5         0.21           72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy         4         0.17           85         28         Information Systems Journal         4 <td>69</td> <td>27</td> <td>Advances in Librarianship</td> <td>5</td> <td>0.21</td>	69	27	Advances in Librarianship	5	0.21
72         27         Information Research         5         0.21           73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy         4         0.17           85         28         Information Systems Journal         4         0.17	70	27	African Journal of Library and Information Science	5	0.21
73         27         Information Systems         5         0.21           74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy         4         0.17           85         28         Information Systems Journal         4         0.17	71	27	IFLA Journal	5	0.21
74         27         Information Today         5         0.21           75         27         Science         5         0.21           76         27         Management Quarterly         5         0.21           77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy         4         0.17           85         28         Information Systems Journal         4         0.17	72	27	Information Research	5	0.21
Journal of Education for Library and Information	73	27	Information Systems	5	0.21
75       27       Science       5       0.21         76       27       Management Quarterly       5       0.21         77       27       Publishers Weekly       5       0.21         78       27       Reference Services Review       5       0.21         79       27       Special Libraries       5       0.21         80       27       Vanguard       5       0.21         81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17	74	27	Information Today	5	0.21
76       27       Management Quarterly       5       0.21         77       27       Publishers Weekly       5       0.21         78       27       Reference Services Review       5       0.21         79       27       Special Libraries       5       0.21         80       27       Vanguard       5       0.21         81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17			Journal of Education for Library and Information		
77         27         Publishers Weekly         5         0.21           78         27         Reference Services Review         5         0.21           79         27         Special Libraries         5         0.21           80         27         Vanguard         5         0.21           81         27         World Development         5         0.21           82         28         Agricultural Economics         4         0.17           83         28         College and Research Libraries News         4         0.17           84         28         Electronic Networking Applications and Policy         4         0.17           85         28         Information Systems Journal         4         0.17	75	27	Science	5	0.21
78       27       Reference Services Review       5       0.21         79       27       Special Libraries       5       0.21         80       27       Vanguard       5       0.21         81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17	76	27	Management Quarterly	5	0.21
79       27       Special Libraries       5       0.21         80       27       Vanguard       5       0.21         81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17	77	27	Publishers Weekly	5	0.21
80       27       Vanguard       5       0.21         81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17	78	27	Reference Services Review	5	0.21
81       27       World Development       5       0.21         82       28       Agricultural Economics       4       0.17         83       28       College and Research Libraries News       4       0.17         84       28       Electronic Networking Applications and Policy       4       0.17         85       28       Information Systems Journal       4       0.17	79	27	Special Libraries	5	0.21
8228Agricultural Economics40.178328College and Research Libraries News40.178428Electronic Networking Applications and Policy40.178528Information Systems Journal40.17	80	27	Vanguard	5	0.21
8328College and Research Libraries News40.178428Electronic Networking Applications and Policy40.178528Information Systems Journal40.17	81	27	World Development	5	0.21
8428Electronic Networking Applications and Policy40.178528Information Systems Journal40.17	82	28	Agricultural Economics	4	0.17
85 28 Information Systems Journal 4 0.17	83	28	College and Research Libraries News	4	0.17
	84	28	Electronic Networking Applications and Policy	4	0.17
86 28 Information Technology and Libraries 4 0.17	85	28	-	4	0.17
	86	28	Information Technology and Libraries	4	0.17

AN INTERNATIONAL PEER REVIEWED BILINGUAL E-JOURNAL OF LIBRARY AND INFORMATION SCIENCE Volume: 02, Issue: 03, May –June 2015 eISSN NO. 2394-2479

Impact Factor (IIFS) - 0.331

88         28         Journal of the Medical Library Association         4         0.17           89         28         Pak-LIS News         4         0.17           90         28         Research Evaluation         4         0.17           91         28         The International Journal for Communication Studies         4         0.17           92         28         The Library Quarterly         4         0.17           93         29         Al-Anbaa         3         0.13           94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           99         29         Education Libraries Journal         3         0.13           100         29         Education Libraries Alexiew         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           102         29<	87	28	Impact Factor (IIFS) - 0.331  Journal of Teaching in Travel and Tourism	4	0.17			
89         28         Pak-LIS News         4         0.17           90         28         Research Evaluation         4         0.17           91         28         The International Journal for Communication Studies         4         0.17           92         28         The Library Quarterly         4         0.17           93         29         Al-Anbaa         3         0.13           94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           100         29         Education Libraries Journal         3         0.13           101         29         Educom Review         3         0.13           101         29         Education Libraries Review         3         0.13           102         29         First Monday         3         0.13           103         29         International and Comparative Librariansh	88	28		4	0.17			
91         28         The International Journal for Communication Studies         4         0.17           92         28         The Library Quarterly         4         0.17           93         29         Al-Anbaa         3         0.13           94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           100         29         Education Libraries Journal         3         0.13           100         29         Educoun Review         3         0.13           101         29         Electronic Libraries Journal         3         0.13           102         29         First Monday         3         0.13           102         29         First Monday         3         0.13           103         29         Health Libraries Review         3         0.13           104         29         Information Quarterly	89	28	-					
92         28         The Library Quarterly         4         0.17           93         29         Al-Anbaa         3         0.13           94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           100         29         Education Libraries Journal         3         0.13           100         29         Educom Review         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           102         29         First Monday         3         0.13           103         29         Health Libraries Review         3         0.13           104         29         Information Quarterly         3         0.13           105         29         International and	90	28	Research Evaluation	4	0.17			
93         29         Al-Anbaa         3         0.13           94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           100         29         Education Libraries Journal         3         0.13           100         29         Educom Review         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           102         29         First Monday         3         0.13           103         29         Health Libraries Review         3         0.13           104         29         Information Quarterly         3         0.13           105         29         International and Comparative Librarianship         3         0.13           106         29	91	28	The International Journal for Communication Studies	4	0.17			
94         29         American Journal of Public Health         3         0.13           95         29         American Libraries         3         0.13           96         29         Aslib Proceedings         3         0.13           97         29         BOTA BOTA News         3         0.13           98         29         D-Lib Magazine         3         0.13           100         29         Education Libraries Journal         3         0.13           100         29         Educom Review         3         0.13           101         29         Electronic Library and Information Systems         3         0.13           102         29         First Monday         3         0.13           103         29         Health Libraries Review         3         0.13           104         29         Information Quarterly         3         0.13           105         29         International and Comparative Librarianship         3         0.13           106         29         Journal of AGSI         3         0.13           107         29         Journal of Personality         3         0.13           108         29         Journal	92	28	The Library Quarterly	4	0.17			
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	121	29	The Journal of Academic Librarianship	3	0.13			

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122	29	Third World Quarterly	3	0.13
123		Two Times	276	11.57
124		One Time	590	24.73
		Total	2386	100

It was observed that the Library Hi Tech ranked 1<sup>st</sup> in position than other journal with maximum of citations i.e.104 (4.36%).276 journals with 2 citations & 590 journals with 1 citation respectively.

## **Chronological Distribution of Citations:**

The study regarding the ranking of year wise citations has been done in order to know the most dominant year; the ten year span of period was undertaken for the study.

**Table 10: Chronological Distribution of Citations:** 

Chronological Distribution of Citations									
Period	No. of Citation	Cumulative Citations	% of Citations	Cumulative % of Citations					
1900 & before	30	30	0.83	0.04					
1901-1910	20	50	1.39	1.43					
1911-1920	50	100	2.77	4.20					
1921-1930	90	190	5.27	9.47					
1931-1940	70	260	7.21	16.68					
1941-1950	120	380	10.54	27.22					
1951-1960	150	530	14.70	41.93					
1961-1970	200	730	20.25	62.18					
1971-1980	405	1135	31.48	93.66					
1981-1990	765	1900	52.70	146.36					
1991-2000	1300	3200	88.77	235.13					
2001-2010	345	3545	98.34	333.47					
Not Define	60	3605	100.00						
Total	3605								

Table 10 gives Ranking of the year of distribution of citation which shows that 3545 the highest number of citations out of a total of 3605 citations is in the year 2003-2012 and lowest number of citation in year 1991-2000.

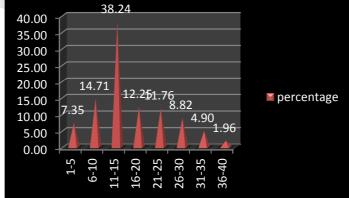
Length of the Articles: Indicates the details about the page length of the contributions

**Table No11: Length of Articles:** 

Length of Articles													
NO. OF	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	% (	%	
<b>PAGES</b>	2003	2003	2004	2003	2000	2007	2000	2009	2010	2011	2012	/0	70
1-5	3			1			11			/	15	7.35	
6-10	2	2	2	11	5	1	1	1	4	1	30	14.71	
11-15	6	11	17	4	10	13	6	4	5	2	78	38.24	
16-20	5	2	1	3	1	5	3	1	3	1	25	12.25	
21-25	3	2		1	5		3	8	2	0	24	11.76	
26-30		2		3	5		2	1	4	1	18	8.82	
31-35		2	1		4	1	1			1	10	4.90	
36-40		1			1		1	1			4	1.96	
	19	22	21	23	31	20	28	16	18	6	204	100.00	

Table 11 above aptly reflects the distribution of length of the articles during the period of study. Out of 204 articles 78(38.24) had 11-15 pages followed by 30(14.71%) had 6-10 pages. The lowest range being 10(4.90%) articles in the range of 31-35.Only 4(1.96) article had length of 36-40 pages. Table shows year wise length of the articles.

Figure No.07. Length of Article



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Impact Factor (IIFS) - 0.331

**Findings**:

The findings are based on the analysis of collected data appended in 204 articles and

3605 references in "Reference and User Services, Quarterly" journal.

**Reference and User Services, Quarterly** 

**Average number of references per articles:** 

The highest number of references per article is observed in the year 2006.e.578

(22.74%) and lowest in the year 2010 i.e.124 (4.88%).

Growth and Rate of doubling time of Publication:

It can be noticed that the Relative Growth of publication [R(P)] decreased from

the rate of 0.77 in 2003 to 0.03 in 2012. The mean relative growth for the first five

years(i.e.2003 to 2012)showed a growth ate of 0.45 whereas the mean relative

growth for the last five years(i.e.2008to2012) reduced to 0.11. The corresponding

Doubling Time for different years [Dt(P)]gradually increased from 1 in 2003 to

0.45 in 2008 and it also shows that there is decrease in Doubling Time reduced

to 6.07 Thus as the rate of growth of publication was decrease, the corresponding

Doubling Time was increased. The Doubling Time for the first five years (i.e. 2003)

to 2012) was only 0.18 which was increased to 0.24 during last five years (i.e. 2008)

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Volume: 02, Issue: 03, May -June 2015

Impact Factor (IIFS) - 0.331

to 2012). Thus As the rate of growth of publication was decreased, the

corresponding Doubling Time was increased.

Rate growth of citations:

It is observed from Table 3 in case of citations it was observed that the relative

growth rate of citations was gradually decreased from 0.44 in 2003 to 0.09 in

2012. The mean Relative Growth [R(C)] of Citations during first five years (i.e.

2003 to 2012) was higher (0.45) than the last five years i.e. during 2008 to

2012(0.97).

The corresponding Doubling Time also indicate trend of 0.13 in 2003 to in

2012. The mean Doubling Time [Dt(C)] during the half period (i.e. 2003 to 2012)

was 0.66 which was increased to 0.16 during 2008 to 2012. Thus the rate of

growth of citations has been gradually reduced and corresponding Doubling

Time has been increased.

Form wise Distribution of references:

Journal Book, and Conference cited in the journal are shown in the table no 4.the

study regarding the form wise distributions of citations has been done in order to

know the most dominant forms in which the information is cited. Table 4 gives

form wise distribution of citation analysis and shows that 2386 citations out of a

total of 3605 citations are journal citations. It forms about 66.19% of the total.

Where hypothesis No.1 is proved "Journals citations are more in numbers than

other document.

**Authorship Pattern:** 

The authorship pattern has been studied with 204 articles. It was analyzed to

determine percentage of single, two, three, four, five, six or more than six authors.

It also identifies the distribution of articles according to the number of contributors.

The number of two author is highest and it accounts for 80(39.22%) and the

number of six author and seven author are the lowest and it accounts for

1(0.49%). Where Hypothesis No.2 is not valid i.e. "Single authors are more in

number.

Year -wise Degree of collaboration:

It is observed that the two author articles are heights in number than co-authors. the

two authored article are highest in the year 2007i.e.11 (5.39) and the three authored

articles are highest in the year 2003 and 2007 i.e. 9 (47.37).

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**Organizational Contribution:** 

In organization wise contribution it is observed that University are major

contributors with 151(74.01%) from 2003-2012 which is followed by other

institute i.e.46 (22.25). Where hypothesis No.3 is valid i.e. "Universities are the

major contributors"

**Country wise distribution:** 

The countries on the basis of no of citations published are shown in table. The

countries having a maximum number of 3605citations appended in 204articles

have been considered. The study regarding the country wise distributions of

citations has been done in order to know the most dominant countries in which the

information is cited. It was seen that USA have 3605 (100%).

Ranked List of most cited journals:

The journals Citations were further analyzed to establish a list of journals. Table 6

provide ranked list of the most frequently cited journals in both journals under

study. It was observed that the Library Hi Tech journal ranked 1st in position than

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other journal with maximum number of citations i.e. 104(4.36%).19journals were 2

citations and 100 journals with 1 citations respectively.

 ${\bf Chronological\ distribution\ of\ citations:}$ 

The study regarding the ranking of the year citations has been done in order to

know the most dominant year of the ten year span of period was taken. Citation in

which the information is cited. Table 10 gives Ranking of year of distribution of

citations which shows that 3545 the highest number of citations out of a total of

3605 citations is in year 2003-2012 and lowest number of citations in year 1911-

1920 respectively Where it is seen that the researchers Cite the latest document.

The study shows that last 18-20 years (1991-2010) literature was cited

**Length of Articles:** 

Table 11 shows aptly reflect the distribution of length of the articles during the

period of study. Out of 204 articles 78(38.24) had 11-15 pages followed by

30(14.71) had 6-10 pages. The lowest range being 10(4.90) articles in the range of

31-45.Only 4(196) article had length of 36-40 pages. Table shows year wise length

of the articles.

**Conclusion:** 

Analysis is a branch of bibliometric where the unit of analysis is a document that is

being cited as a bibliographic reference. It is the study of the distribution or scattering of

references. The present study has been conducted citation analysis of the "Journal Collection"

Management "on the basis of ten objectives.

Citation studies do provides some guide lines for making process in their

acquisition policy. These findings are much helpful for librarian and information

scientists while taking decisions regarding collection development, removing out

dated documents from the shelves and also in maintaining need based collection in

libraries.

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AN INTERNATIONAL PEER REVIEWED BILINGUAL E-JOURNAL OF LIBRARY AND INFORMATION SCIENCE Volume: 02, Issue: 03, May –June 2015 eISSN NO. 2394-2479

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