



# REVAMPING LIBRARIES IN MODERN ERA

Proceedings of National  
Conference-2023



- Editors -

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# CITATION ANALYSIS OF LITERATURE PUBLISHED IN JOURNALS ON PERSONS WITH DISABILITIES

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## ABSTRACT

Researchers selected 25 research articles for literature review. Author wise number of citations and h-index of these 25 research articles are analyzed using the SCOPUS database. Total 8 Indian authors and 23 foreign authors are ranked as per their number of citations and h-index. First hypothesis i.e. 'Number of citations of Indian and foreign authors are different or not equal' is false and the second hypothesis i.e. 'h-index of Indian and foreign authors are different or not equal, is true.

**Keywords:** h-index, citations, Persons with Disabilities

## 1. INTRODUCTION

This paper is an outcome of the articles collected for literature review on library services to persons with disabilities. Researchers have selected 25 journal research articles for their literature review of Ph. D. topic i. e. Performance evaluation of knowledge resource centers of non-agricultural universities in Maharashtra for rendering library services to students with disabilities: A study. Researcher has selected research articles as per keyword 'students with disabilities and library' published from 2011 to 2019. Author h-index is normally the count of a particular document cited by other researchers in their research paper. Researchers are writing their references used from other sources like books, journals, reports, websites, etc. These references are known as citations.

## 2. DEFINITIONS

### 2.1 h-index:

"The h-index is an author-level metric that measures both the productivity and citation impact of the publications of a scientist or scholar. The index was suggested

in 2005 by Jorge E. Hirsch, a physicist at UC San Diego, as a tool for determining theoretical physicists' relative quality and is sometimes called the Hirsch index or Hirsch number” (H-index, 2020).

## **2.2 Citation:**

“A bibliographic citation is a reference to a book, article, web page, or other published item. Citations should supply detail to identify the item uniquely” (Citation, 2020).

Researchers are using one of the following forms of reference management style manuals / formats.

1. American Psychological Association (APA)
2. Modern Language Association (MLA)
3. Chicago Manual, etc.

## **3. SOURCES OF CITATION ANALYSIS**

1. Web of Science
2. Scopus
3. Google Scholar

## **4. THE OBJECTIVE OF THE STUDY**

- 4.1 To rank the Indian and foreign authors as per their number of citations and h-index.

## **5. HYPOTHESIS OF THE STUDY**

- 5.1 Number of citations of Indian and foreign authors are different or not equal.
- 5.2 h-index of Indian and foreign authors are different or not equal.

## **6. LIMITATIONS OF THE STUDY**

- 6.1 25 journal research articles published from 2011 to 2019 are selected as per keyword i.e. ‘students with disabilities and library’ which are related to researcher Ph. D. research topic.
- 6.2 Only [www.scopus.com](http://www.scopus.com) is used for analysis of number of citations and h-index of authors.
- 6.3 Only the number of citations and the h-index of authors are studied.

## **7. RESEARCH METHODOLOGY**

For this study, descriptive research method is used.

## 8. HOW TO CALCULATE H-INDEX MANUALLY?

For calculation of h-index of Researcher manually, first organize all research papers (citing) of researcher in descending order as per number of citations (cited by others). In the below example (Table No. 1), the researcher has 10 papers that have been cited 50, 36, 21, 14, 9, 7, 6, 4, 3, and 0 times. The rank number 6 indicated that the number of citations are 7 i.e. greater than rank. Therefore, researcher **h-index is 6**.

<b>Rank of Paper</b>	<b>No. of Citations</b>
<b>1</b>	<b>50</b>
<b>2</b>	<b>36</b>
<b>3</b>	<b>21</b>
<b>4</b>	<b>14</b>
<b>5</b>	<b>9</b>
<b>6</b>	<b>7</b>
<b>7</b>	<b>6</b>
<b>8</b>	<b>4</b>
<b>9</b>	<b>3</b>
<b>10</b>	<b>0</b>

## 9. DATA ANALYSIS AND PRESENTATION

<b>Sr. No.</b>	<b>Year of Paper Publication</b>	<b>Authors</b>		<b>Total Authors</b>	<b>Remarks</b>
		<b>Indian</b>	<b>Foreign</b>		
1	2019	6	0	6	
2	2018	1	0	1	
3	2017	1	8	9	
4	2016	2	3	5	
5	2015	7	3	10	
6	2014	5	1	6	2 Indian authors are repeated

7	2013	0	7	7	
8	2012	0	1	1	
9	2011	0	3	3	
	<b>TOTAL</b>	<b>22</b>	<b>26</b>	<b>48</b>	

<b>Table No. 3 - Indian and foreign authors number of citations and h-index analysis of 25 journal research articles</b>								
<b>Sr. No</b>	<b>Paper Title</b>	<b>Sr. No</b>	<b>Author</b>	<b>No. of Documents</b>	<b>No. of Citations</b>	<b>Cited by Documents</b>	<b>h-index</b>	<b>Indian / Foreign</b>
1	Library Facilities and Services for Differently Abled Students in Universities of Karnataka: A Study	1	Chandrakanth H G	1	0	0	0	Indian
		2	Reddy, K Ramakrishna	1	0	0	0	Indian
2	Provision of Assistive Technology for Students with Visual Impairment in University Libraries in India	3	Dodamani, Anand M.	3	1	1	1	Indian
		4	Dodamani, Sukanya M.	1	0	0	0	Indian
3	Library Services for Differently Abled Persons in University Library: A Case Study of University Library, Osmania University	5	Yellaiah, B.	0	0	0	0	Indian
		6	Chakravarthy, A. S.	0	0	0	0	Indian

4	Information Access Mechanism for Visually Impaired Students in Higher Educational Institutions: A Study	7	Bhardwaj, Raj Kumar	24	<b>97</b>	91	<b>5</b>	Indian
5	Providing staff training and programming to support PWD: An academic library case study	8	Brannen, Michelle H.	6	<b>12</b>	12	<b>2</b>	Foreign
		9	Milewski Steven	4	<b>4</b>	4	<b>2</b>	Foreign
		10	Mack, Thura	11	<b>60</b>	60	<b>5</b>	Foreign
6	Library Services for the Physically Challenged in South-East, Nigeria: Origin and Challenges	11	Iroeze, Pauline C.	0	<b>0</b>	0	<b>0</b>	Foreign
		12	Umunnakwe, Gertrude C.	4	<b>0</b>	0	<b>0</b>	Foreign
		13	Eze, Jacintha U.	10	<b>24</b>	23	<b>3</b>	Foreign
7	Convenience and accessibility of library services to students with disabilities at the University of Limpopo in South Africa	14	Phukubje, Justice	1	<b>1</b>	1	<b>1</b>	Foreign
		15	Ngoepe, Mpho	31	<b>124</b>	86	<b>7</b>	Foreign
8	Library support services for visually impaired students in ICT environment	16	Sutar, Dhananjay Bhagawan	0	<b>0</b>	0	<b>0</b>	Indian
9	Use of Library Technology and Services by the Visually-impaired and the Blind in the University of Khartoum, Sudan	17	Abdelrahman, Omer Hassan	4	<b>13</b>	13	<b>3</b>	Foreign
10	Provision of library services to people with disabilities in	18	Chaputula, Aubrey Harvey	10	<b>47</b>	42	<b>5</b>	Foreign



	Malawi	<b>19</b>	Mapulanga, Patrick Makono	0	<b>0</b>	0	<b>0</b>	Foreign
11	Enhancing library resources access for different abled person through ICT	<b>20</b>	Solanki, Suresh b.	0	<b>0</b>	0	<b>0</b>	Indian
		<b>21</b>	Mandaliya, Shishir	0	<b>0</b>	0	<b>0</b>	Indian
12	Library Web sites for people with disability: accessibility evaluation of library websites in Pakistan	<b>22</b>	Khan, Arif	0	<b>0</b>	0	<b>0</b>	Foreign
		<b>23</b>	Idrees, Haroon	22	<b>49</b>	38	<b>4</b>	Foreign
		<b>24</b>	Khan, Mudassir	1	<b>0</b>	0	<b>0</b>	Foreign
13	Adaptive facilities for supporting differently-abled persons in the library environment: A case study of libraries in Shillong, Meghalaya, India	<b>25</b>	Laloo, Bikika	2	<b>1</b>	1	<b>1</b>	Indian
		<b>26</b>	Kharmyndai, Learner	0	<b>0</b>	0	<b>0</b>	Indian
14	Library Information Services for Print/Visually Disabled Users in ICT Environment	<b>27</b>	Mishra, Ajay Shanker	0	<b>0</b>	0	<b>0</b>	Indian
		<b>28</b>	Ali, Afsar	0	<b>0</b>	0	<b>0</b>	Indian
		<b>29</b>	Thakur, Santosh	0	<b>0</b>	0	<b>0</b>	Indian
15	User's Perspective Towards Assistive Technologies Available in NCR Libraries of India	<b>30</b>	Sanaman, Gareema	6	<b>32</b>	32	<b>3</b>	Indian
		<b>31</b>	Kumar, Shailendra	19	<b>37</b>	37	<b>4</b>	Indian
16	Improving academic library website accessibility for people with disabilities	<b>32</b>	Billingham, Lisa	3	<b>16</b>	16	<b>1</b>	Foreign

17	Facilities and Services to Patrons with Disabilities in the Pondicherry University Library System: An Overview	33	Naheem, K. T.	3	3	3	1	Indian
18	Assistive Technologies for People with Disabilities in National Capital Region Libraries of India	34	Sanaman, Gareema	6	32	32	3	Indian
		35	Kumar, Shailendra	19	37	37	4	Indian
19	Use of Assistive Technologies in Academic Libraries: A Survey	36	Tripathi, Manorama	33	220	213	8	Indian
		37	Shukla, Archana	4	14	14	3	Indian
20	Accessibility and facilities for the disabled in public and university library buildings in Iran	38	Bodaghi, Nahid Bayat	7	40	33	4	Foreign
		39	Zainab, A. N.	78	654	574	13	Foreign
21	Library services to disabled students in the digital era: Challenges for outcome assessment	40	Ekwelem, V. O.	6	28	28	3	Foreign
22	Library and Information Service Delivery for the Blind and Physically Challenged in University of Nigeria Nsukka Library	41	Eskay, Michael	6	1	1	1	Foreign
		42	Chima, J. N.	1	1	1	1	Foreign

23	Library service provision for people with visual impairments and in wheelchairs in academic libraries in Tanzania	43	Majinge, Rebecca Mgunda	4	16	14	3	Foreign
		44	Stilwell, Christine	2	14	14	2	Foreign
24	A Survey of Library and Information Services to Physically-Challenged Students in Academic Libraries in Ogun State, Nigeria	45	Lawal-Solarin, Esther Opeola	2	4	4	1	Foreign
25	Differently abled: A review of academic library websites for PWD	46	Cassner, Mary	13	83	77	7	Foreign
		47	Maxey-Harris, Charlene	7	41	40	4	Foreign
		48	Anaya, Toni	1	1	1	1	Foreign

**Table No. 3** shows the record of all 48 Indian and foreign authors list which includes information about number of documents written by particular authors, number of citations for the author's documents, number of cited documents and h-index of author.

Total Indian authors are 22. Out of 22 authors, 2 authors Sr. No. 34 and 35 are repeated. So, only 20 authors are studied for h-index and number of citations. Out of 20 authors, 9 authors (Sr. No. 5, 6, 16, 20, 21, 26, 27, 28, 29) records are not found in Scopus database and 3 authors (Sr. No.1, 2 & 4) number of citations and h-index are nil. Therefore, finally only 8 Indian authors are studied for number of citations and h-index.

Total foreign authors are 26. Out of 26 authors, 3 authors (Sr. No. 11, 19, 22) records are not found in the SCOPUS database and 2 authors (Sr. No. 12 & 24) number of citations and h-index are nil. Therefore, finally only 21 foreign authors are studied for number of citations and h-index.

**Table No. 4 - Rank of foreign authors as per number of citations and h-index**

<b>Sr. No.</b>	<b>Foreign Author</b>	<b>No. of Documents</b>	<b>No. of Citations</b>	<b>Cited by Documents</b>	<b>h-index</b>	<b>Country / Territory</b>
1	Zainab, A. N.	78	654	574	13	Malaysia
2	Ngoepe, Mpho	31	124	86	7	South Africa
3	Cassner, Mary	13	83	77	7	United States
4	Mack, Thura	11	60	60	5	United States
5	Chaputula, Aubrey Harvey	10	47	42	5	Malawi
6	Idrees, Haroon	22	49	38	4	Pakistan
7	Maxey-Harris, Charlene	7	41	40	4	United States
8	Bodaghi, Nahid Bayat	7	40	33	4	Malaysia
9	Ekwelem, V. O.	6	28	28	3	Nigeria
10	Eze, Jacintha U.	10	24	23	3	Nigeria
11	Majinge, Rebecca Mgunda	4	16	14	3	South Africa
12	Abdelrahman, Omer Hassan	4	13	13	3	Sudan
13	Stilwell, Christine	2	14	14	2	South Africa
14	Brannen, Michelle H.	6	12	12	2	United States

15	Milewski Steven	4	4	4	2	United States
16	Billingham, Lisa	3	16	16	1	Australia
17	Lawal-Solarin, Esther Opeola	2	4	4	1	Nigeria
18	Anaya, Toni	1	1	1	1	United States
19	Chima, J. N.	1	1	1	1	United States
20	Phukubje, Justice	1	1	1	1	South Africa
21	Eskay, Michael	6	1	1	1	Nigeria

**Table No. 5 - Rank of Indian authors as per their number of citations and h-index**

Sr. No.	Author	No. of Documents	No. of Citations	Cited by Documents	h-index	City
1	Tripathi, Manorama	33	220	213	8	New Delhi
2	Bhardwaj, Raj Kumar	24	97	91	5	New Delhi
3	Kumar, Shailendra	19	37	37	4	New Delhi
4	Sanaman, Gareema	6	32	32	3	New Delhi
5	Shukla, Archana	4	14	14	3	New Delhi
6	Naheem, K. T.	3	3	3	1	Puducherry
7	Dodamani, Anand M.	3	1	1	1	Mumbai
8	Laloo, Bikika	2	1	1	1	Shillong

## 10. HYPOTHESIS TEST

Hypothesis has tested using t-test of the number of citations and h-index of Indian and foreign authors. For hypothesis testing, null and alternative hypothesis are as follows:

**First Hypothesis: ‘Number of citations of Indian and foreign authors are different or not equal’.**

1. Null Hypothesis:  $H_0$  = Number of citations of Indian and foreign authors are equal.
2. Alternative Hypothesis:  $H_1$  = Number of citations of Indian and foreign authors are different or not equal.

**Second Hypothesis: ‘h-index of Indian and foreign authors are different or not equal’.**

1. Null Hypothesis:  $H_0$  = h-index of Indian and foreign authors are equal.
2. Alternative Hypothesis:  $H_1$  = h-index of Indian and foreign authors are different or not equal.

Hypothesized Mean = 0

Level of significance = p value = 0.05

Sr. No.	Particulars	Number of Citations		h-index	
		Indian authors	Foreign authors	Indian authors	Foreign authors
1	Tripathi, Manorama	220		8	
2	Bhardwaj, Raj Kumar	97		5	
3	Kumar, Shailendra	37		4	
4	Sanaman, Gareema	32		3	
5	Shukla, Archana	14		3	
6	Naheem, K. T.	3		1	
7	Dodamani, Anand M.	1		1	
8	Laloo, Bikika	1		1	

9	Zainab, A. N.		<b>654</b>		<b>13</b>
10	Ngoepe, Mpho		<b>124</b>		<b>7</b>
11	Cassner, Mary		<b>83</b>		<b>7</b>
12	Mack, Thura		<b>60</b>		<b>5</b>
13	Chaputula, Aubrey Harvey		<b>47</b>		<b>5</b>
14	Idrees, Haroon		<b>49</b>		<b>4</b>
15	Maxey-Harris, Charlene		<b>41</b>		<b>4</b>
16	Bodaghi, Nahid Bayat		<b>40</b>		<b>4</b>
17	Ekwelem, V. O.		<b>28</b>		<b>3</b>
18	Eze, Jacintha U.		<b>24</b>		<b>3</b>
19	Majinge, Rebecca Mgunda		<b>16</b>		<b>3</b>
20	Abdelrahman, Omer Hassan		<b>13</b>		<b>3</b>
21	Stilwell, Christine		<b>14</b>		<b>2</b>
22	Brannen, Michelle H.		<b>12</b>		<b>2</b>
23	Milewski Steven		<b>4</b>		<b>2</b>
24	Billingham, Lisa		<b>16</b>		<b>1</b>
25	Lawal-Solarin, Esther Opeola		<b>4</b>		<b>1</b>
26	Anaya, Toni		<b>1</b>		<b>1</b>
27	Chima, J. N.		<b>1</b>		<b>1</b>
28	Phukubje, Justice		<b>1</b>		<b>1</b>
29	Eskay, Michael		<b>1</b>		<b>1</b>

	<b>Hypothesized Mean</b>	0	0	0	0
	<b>Mean</b>	50.625	58.7142857 1	3.25	3.47619047 6
	<b>Standard Deviation</b>	75.5039024 5	139.909664 7	2.43486579 3	2.87435292 9
	<b>Count</b>	8	21	8	21
	<b>Degree of Freedom</b>	7	20	7	20
	<b>Standard Error of Mean</b>	26.6946607 2	30.5307918 6	0.86085505 7	0.62723523 2
	<b>t statistics</b>	50.625	58.7142857 1	3.25	3.47619047 6
	<b>p Value</b>	3.0728E-10	7.20181E- 24	0.01405728 5	0.00238286 9
	<b>Comparative t value of no. of citations =</b>	<b>35.9922455 2</b>	> 0.05	Accept the Null Hypothesis	
	<b>Comparative t value of h-index =</b>	<b>- 1.98323189 1</b>	< 0.05	Reject Null Hypothesis	

Table No. 6 shows hypothesis testing using t test.

1. Comparative t value of number of citations of Indian and foreign authors is **35.99224552** which is greater than p value i. e. 0.05. This indicated that accept the null hypothesis i. e. number of citations of Indian and foreign authors are equal. Therefore, first hypothesis 'Number of citations of Indian and foreign authors are different or not equal' is false.
2. Comparative t value of h-index of Indian and foreign authors is **-1.983231891** which is less than p value i. e. 0.05 is. This indicated that reject the null hypothesis i. e. h-index of Indian and foreign authors are equal. Therefore, the second hypothesis 'h-index of Indian and foreign authors are different or not equal.' is true.

## 11. FINDINGS

1. In SCOPUS database, 9 Indian Authors and 3 Foreign Authors records are not found.



2. Two Indian Authors are repeated.
3. Number of citations and h-index of foreign author - Zainab, A. B. has ranked first.
4. Number of citations and h-index of Indian author - Tripathi, Manorama has ranked first.
5. First hypothesis 'Number of citations of Indian and foreign authors are different or not equal' is false.
6. Second hypothesis 'h-index of Indian and foreign authors are different or not equal.' is true.

## 12. CONCLUSION

Author h-index helps researchers to select standard literature for their literature review through which they can strongly build their research objectives and hypotheses.

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