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Global Research Trends on Library Management and Administration: A Bibliometric Analysis

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Abstract

The present study analyzed 441 global publications on library management and administration indexed in Scopus database. Very few bibliometric studies were found on various aspects of library management but not as whole library management and administration which made author to analyze globally.

Methods and Materials: *The data was analyzed using biblioshiny app, presented three fold relation viz, authors, countries and keywords, authors and source impact, word count and word growth with thematic presentation and collaborative network of documents.*

Findings: *The highest contribution in library management and administration research is published in the form of journal articles and the publications are steadily growing. The top 10 most productive countries were identified and USA topped the list with highest publication (108) followed by China (81) and India (74). The top cited countries includes UK (404), USA (178) and India (138). The prolific authors were Bissels G. Shatte A., Holdsworth J., Liu Y., Rousseau R. Information management, digital management, management tools and systems are the some trending topics.*

Conclusion: *very few studies were found on the library management and administration globally compared to the past decades which is much needed aspect in the present digital world. We are finding separate management techniques for digital content, for library staff and content management and so on but one need to understand that all these aspects comes under one roof called library, so there is need to find the framework or system or tool or technique to manage library as a whole.*

Keywords: Bibliometric, Citations, Co-Journals, Keywords Co-occurrence, Library Administration, Library Management, Prolific Authors, Scopus Database, Top Countries and Institutions, VOS Viewer,

1. Introduction

Library administration means managing the operations and other activities of a library. Administration can be defined as the act or process of administering in order to achieve the goals and objectives. According to Theo Haimann, "Administration means overall determination of policies, setting of major objectives, the identification of general purposes and laying down of broad programs and projects". It refers to the activities of higher level. It lays down basic principles of the enterprise. According to Newman, "Administration means

guidance, leadership & control of the efforts of the groups towards some common goals". Whereas, management involves conceiving, initiating and bringing together the various elements; coordinating, actuating, integrating the diverse organizational components while sustaining the viability of the organization towards some pre-determined goals. In other words, it is an art of getting things done through and with the people in formally organized groups.

Administration is a determinative function, while management is an executive function. It also follows that administration makes the important decisions of an enterprise in its entirety, whereas management makes the decisions within the confines of the framework, which is set up by the administration. In administration, the planning and organizing of functions are the key factors, whereas, so far as management is concerned, it involves motivating and controlling functions (Kapoor, n.d.)

The main goal of a library is satisfaction of users. Thus libraries are managed to provide user centered services. In order to achieve results effectively and efficiently, various techniques of management are required to apply in the management of libraries. A wide range of management techniques are available for use, but their usefulness depends upon their suitability in the given circumstances. The acronym POSDCORB coined by Luther Gallic can also be applied in the library management and administration.

2. Related Literature

Libraries that are culturally subject to rigid rules and identical with a bureaucratic atmosphere face a high challenge in innovating (Harsanto, 2021) and the author explored the publication development on innovation management in the library with bibliometric analysis and the results identified five clusters: innovation culture, technological innovation, innovative human resources, knowledge management, and e-learning. Further this study contributes to the systematic mapping of innovation management in the library. Progress analysis of library knowledge management research in China based on bibliometrics was done with journal articles at China National Knowledge Infrastructure and books published in China from 1999 to 2012 as data sources by applying bibliometrics and content analysis summarizes the achievements and disadvantages to offer some proposal to the research of library knowledge management in China (Zhong et al., 2013) and bibliometric analysis to discourse fashions in library administration and information management (Day, 2002). (Moll, 1978) Bibliometrics in library collection management was done with preface to the special issue on bibliometrics. The author (Idhris et al., 2021)intended to bibliometric study on Knowledge management related to the library in the WoS and Scopus databases aiming to know main issues such as the evolution of development over the years, Citation, publication, source, author, and country comparative areas are discussed, a total of 416 and 277 documents were published in Scopus and web of sciences, respectively. The average citation per document was 7.35 (Scopus) and 4.27 (web of science) and resulted that the leading countries in KM research were the United States and China, in all datasets, including India and the United Kingdom. Entitled "A formal definition of Big Data based on its essential features" has the highest citations in both databases. Further studies by (Chakraborty & Singh, 2021) (Singh & Prakash, 2021) (A & Sindhu, 2021) (Ncube & Mbawuya, 2021) carried out with special reference to the knowledge management, information management and content management.

Adoption and management of integrated library management software's like KOHA overall experience with Koha is excellent by the institute (Bhawan & Mahawar, 2021) (Salma & Devi, 2020). (Chauhan, 2019) Evaluation in use of KOHA library management software in OPJGU, Sonipat. (Hazarika, 2017) studied on utilization of library management software like KOHA and SOUL college library in Assam.

Various studies were carried on the management and administration of the library like Collection Management & Services of Rajiv Gandhi University and Tripura University Libraries of North East India (Lalengmawia et al., 2021) in which departments are responsible for creating a list of their required materials and submitting it to the library committee for final approval for the document selection process.

The study (Rahman et al., 2019) investigates and elaborates the primary way to learn about the collection management, collection development in accordance to today's information exploitation age of ICT and stated some of the university library have their e-collection till now that are not fully organized, it is due to various factors like insufficient funds, inadequate trained staff in handling computers and software packages, and administrative concerns etc. Management of digital libraries for active learning environment carried out by (Karthick & Ayisha Millath, 2019) and focuses on the current trends and challenges like unauthorized access and plagiarism that are faced by e-content management.

Total quality management in the academic library were discussed (Begum, 2003) Planning in the Field of Library and Information Science Management an strategic approach shown by the (Rao, 1993). Disaster management in libraries is also one of the important aspect to be considered to protect library resources the author (Gohain et al., 2021) (Nongrang & Khongtim, 2021) (Saranya & Devi Dr., 2021) discusses briefly disaster, its types and importance of disaster management plan in university library to create awareness among library professionals and how to keep library print collections safe from any potential disaster, as a part of library management were carried out for the same, online Information Resources for Disaster Management in Libraries and Information Centers were furnished (Kaur & Mahajan, 2021)

3. Significance and limitations of the study

Number of research has been carried out in the field of library management and library administration. In web of science database author found 471 articles while in Scopus 441 articles. The management and administrative aspects like collection management, staff management, digital management, total quality management, decision making, disaster management and many aspects of management and administration were found. The present study intended for bibliometric analysis of articles published on library management and library administration indexed in Scopus database. The database accessed on 04.12.2021 to retrieve the data. The retrieved data analyzed by using the biblioshiny and VOS viewer application.

4. Objectives of the study

The objectives remain to study all the parameters of bibliometric of the articles published on Library Management and Library Administration and the scope is limited to documents indexed in the SCOPUS database, further the main objectives of the study are as follows:

- To examine the status of published documents on Library Management and Administration;
- To identify the highly-cited articles on Library Management and Administration;
- To identify the Countries contributing research on Library Management and Administration;
- To identify the top prolific authors in the field of Library Management and Administration;
- To identify the top institutes publishing articles on Library Management and Administration;
- To visualize the keywords co-occurrence map of Library Management and Administration
- To understand the trending topics, word growth and themes titles and author keywords/terms;

5. Materials and Methods

Data was retrieved from the SCOPUS database on 04.12.2021 by using the article title keywords “library administration” or “library management” AND NOT “journal”. A total of 441 articles retrieved for the analysis. Initially, the bibliometrix R package was installed and loaded through R Studio. Then, biblioshiny app was started by entering command biblioshiny () in R console. The biblioshiny app for bibliometrix from R Statistical Package was used to carry out present bibliometric analysis. It has many features which are helpful to carry out in-depth bibliometric analysis. It is an application that provides a web interface for non-coders for bibliometrix tool. Finally, SCOPUS file in .bib format was uploaded on Biblioshiny interface. Further as per the objectives of the study, excel files and .png files were downloaded and used for data analysis. VOS Viewer application used for the visual presentations.

6. Results and Discussion

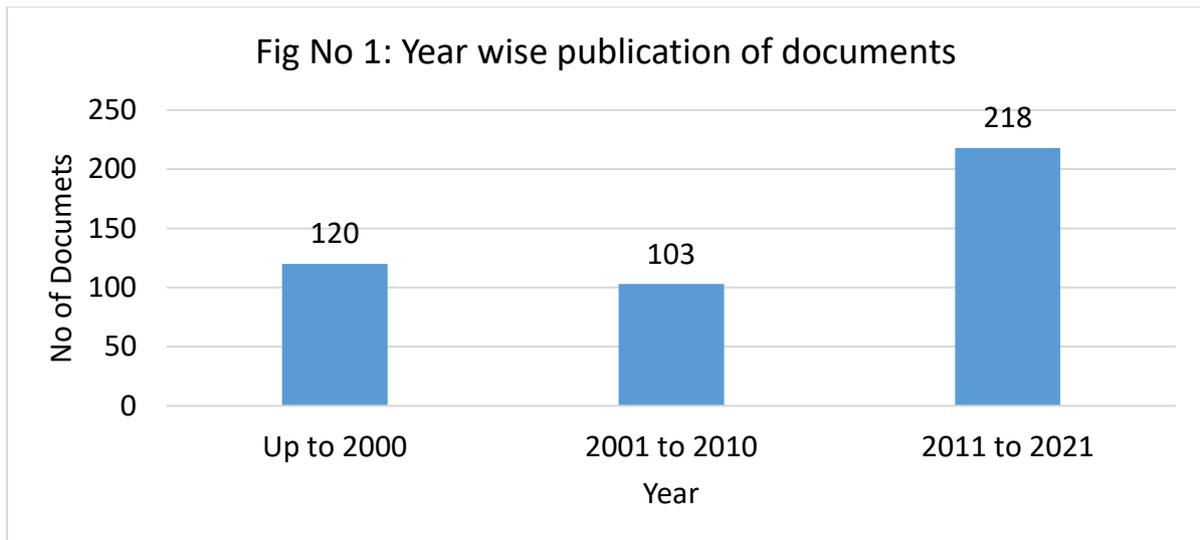
6.1 Information abstract of the retrieved data

The basic bibliometric information on library management and administration retrieved from biblioshiny application is shown in the Table 1. Four hundred forty one (n=441) documents were found from 230 sources with the time span from 1926 to 2021. Average citations per document is 3.31 and average citations per year per document is 0.3. Total author’s keywords are 741 and total references are 7418 for the retrieved documents. Type of documents includes 251 journal articles followed by 107 conference papers. Authors of single-authored documents are 210 and Authors of multi-authored documents 602.

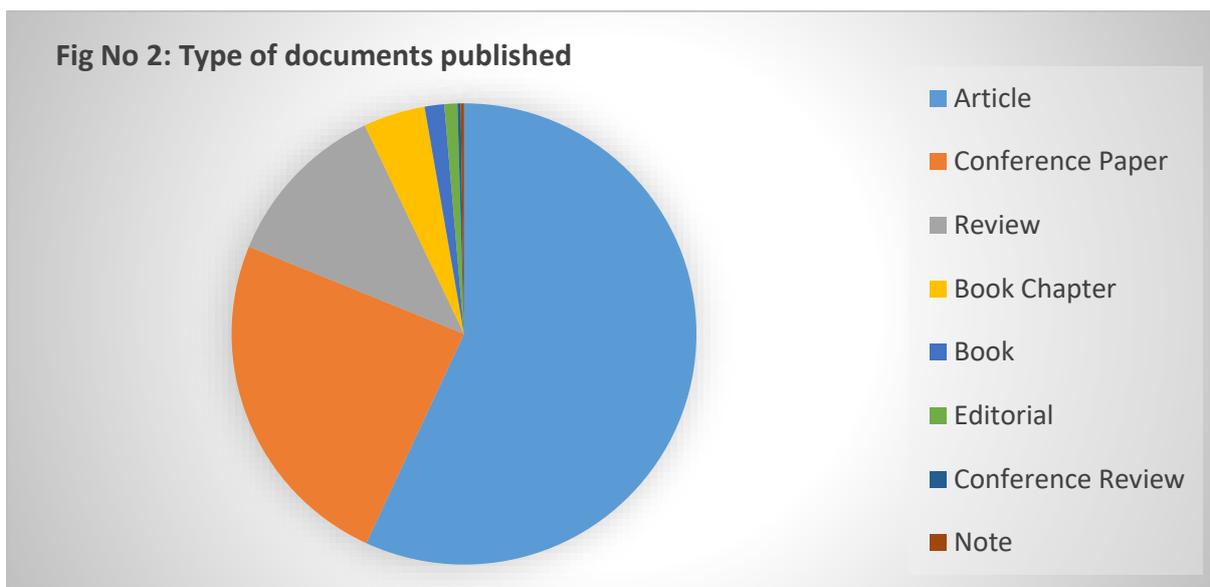
Table No 1: Information abstract	
Description	Results
MAIN INFORMATION ABOUT DATA	
Timespan	1926:2021
Sources (Journals, Books, etc)	230
Documents	441
Average years from publication	14.4
Average citations per documents	3.331
Average citations per year per doc	0.3445
References	7418
DOCUMENT TYPES	
article	251
book	6
book chapter	19
conference paper	107
conference review	1
editorial	4
note	1
review	52
DOCUMENT CONTENTS	
Keywords Plus (ID)	1174
Author's Keywords (DE)	741
AUTHORS	
Authors	785
Author Appearances	880
Authors of single-authored documents	183
Authors of multi-authored documents	602
AUTHORS COLLABORATION	
Single-authored documents	210
Documents per Author	0.562
Authors per Document	1.78
Co-Authors per Documents	2
Collaboration Index	2.61

6.2 Status of published documents on Library Administration and Management

Table No 2: Year wise publication of documents		
Year	Documents	%
Up to 2000	120	27.21
2001 to 2010	103	23.36
2011 to 2021	218	49.43
Total	441	100.00



441 documents were retrieved from the search strategy mentioned above presented in table no 2. It shows up to year 2000 only 120 documents were published were as maximum documents published in the year gap from 2011 to 2021 scoring half portion of the total publication as 218 (49.43%).



6.3 Source Impact

Table 3 presents the top 10 journals preferred by the researcher's on library management and administration field. The Journal Library Management found to be most preferred journal by the researcher with 33 publications across the world and even ranked first in its citation also (n-109). The journal entitled Journal of Library Administration found to be second in its publication with 21 numbers with 51 citations followed by 18 publication in the journal Library Philosophy and Practice with 8 citations. IFLA journal though having the less number of publications (n-06) but total citations are 51.

Source	h_index	g_index	m_index	TC	NP	PY_start
Library Management	6	8	0.14	109	33	1980
Journal of Library Administration	5	5	0.12	51	21	1981
Library Philosophy and Practice	2	2	0.17	8	18	2010
Program	5	8	0.13	80	15	1983
Library Review	5	6	0.16	46	11	1990
Library Hi Tech News	4	5	0.40	26	7	2012
Applied Mechanics And Materials	1	2	0.11	5	6	2013
IFLA Journal	3	6	0.06	51	6	1975
Journal of Librarianship And Information Science	2	2	0.04	8	6	1977
The Electronic Library	1	1	0.03	3	6	1985

6.4 highly-cited articles on Library Management and Administration

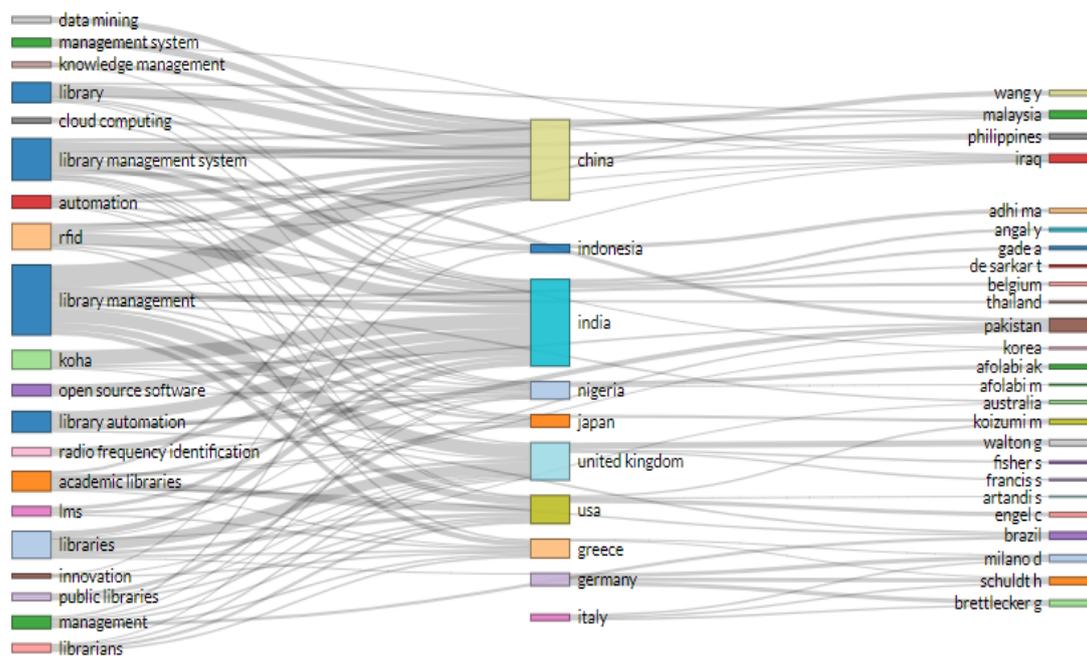
The table no 4 elaborates the top ten articles on the citation basis. The article entitled “Implementation of an open source library management system: Experiences with Koha 3.0 at the Royal London Homoeopathic Hospital” published in 2008 was cited by 37 followed by “Mobile augmented reality based context-aware library management system” with 34 citation and “Hirsch-type indices and library management: The case of Tongji University Library” by 27.

#	Authors	Title	Year	Cited by
1	Bissels G.	Implementation of an open source library management system: Experiences with Koha 3.0 at the Royal London Homoeopathic Hospital	2008	37
2	Shatte A., Holdsworth J.,	Mobile augmented reality based context-aware library management system	2014	34
3	Liu Y., Rousseau R.	Hirsch-type indices and library management: The case of Tongji University Library	2007	27
4	Lakos A.	Evidence-based library management: The leadership challenge	2007	27
5	Islam M.A., Tsuji K.	Assessing information literacy competency of Information Science and Library Management graduate students of Dhaka University	2010	26
6	Renold A.P., Rani R.J.	An internet based RFID library management system	2013	22
7	Singh M., Sanaman G.	Open source integrated library management systems: Comparative analysis of Koha and NewGenLib	2012	22
8	Markakis I., Samaras T.,	An RFID-enabled library management system using low-SAR smart bookshelves	2013	20
9	Agosti M., Berretti S.,	DelosDLMS - The integrated DELOS digital library management system	2007	20
10	Islam M.A., Ikeda M., Islam M.M.	Knowledge sharing behavior influences: A study of Information Science and Library Management faculties in Bangladesh	2013	19

6.5 The three field plot of top ten Authors, Countries and Keywords Relations

The relations between the authors, Countries and keyword were visualized using the Three Fields Plot. Here the relevant elements were represented in the diagram by rectangles with a different colors. The height of the rectangles depended on the value of the sum of the relations arising between the element that the rectangle represents (one of the elements in the authors, countries and keyword) The more relations element had the higher rectangle representing it. The figure 3 shows that India and China having the strong relationship with various elements of Library Management and Administration followed by UK, USA and so on.

Fig 3: three field plot of top ten Authors, Countries and Keywords Relations



6.6 Top countries contributed research on Library Management and Administration

Table 5 shows the most productive countries in terms of published documents on Library Management and Administration. USA topped the list with highest documents (n=108). The other productive countries were China with 81 documents, India with 74 followed by United Kingdom with 57 and Indonesia with 30 documents. Malaysia with 11 documents in 9th position and Australia with 10 documents ranked 10th position.

Table No 5: Countries contributing research on Library Management and Administration	
Country/Territory	Documents
USA	108
CHINA	81
INDIA	74
UK	57
INDONESIA	30
NIGERIA	20
JAPAN	17
GREECE	15
MALAYSIA	11
AUSTRALIA	10

6.7 Most Cited Countries

Table 6 shows the most productive countries in terms of citations on Library Management and Administration. United Kingdom topped the list with highest citations (404) followed by countries like USA with 178, India with 138. Bangladesh with 26 citation in 9th position and Korea with 22 citations ranked 10th position.

Table 6: Profile of Top 10 Most Productive Countries in terms of Citations		
Country	Total Citations	Average Article Citations
UNITED KINGDOM	404	10.919
USA	178	2.825
INDIA	138	4.929
CHINA	58	1.349
AUSTRALIA	57	8.143
GREECE	43	8.6
JAPAN	41	5.125
ITALY	33	8.25
BANGLADESH	26	13
KOREA	22	5.5

6.8 Author Impact

The performance of top ten productive authors on the basis their publications, citations and h-index are shown in table 7. The publication count revealed Walton G with 06 publications ranked first in the list and also with highest citation (n-43). Milano D and Scguldt H each published 03 articles having 24 citation each.

Author	h_index	g_index	m_index	TC	NP	PY_start
WALTON G	3	6	0.2	43	6	2007
KOIZUMI M	2	4	0.25	16	4	2014
NA NA	0	0	0	0	4	2004
WANG Y	2	2	0.125	8	4	2006
ANGAL Y	2	3	0.4	15	3	2017
GADE A	2	3	0.4	15	3	2017
MILANO D	2	3	0.133	24	3	2007
SCHULDT H	2	3	0.133	24	3	2007
ADHI MA	1	1	0.25	2	2	2018
AFOLABI AK	1	2	0.111	5	2	2013

6.9 Most Frequent Authors Keywords

Off course the library management will be the highest used word (n-103) but the other aspects in library management which are used are like information management (n-30), digital library management (n-27) and so on with the keywords like library administration, information science, information technology and information services which is shown in table 8. In figure 4 bigger the size of keyword shows the highest number of occurrence and vice versa. Further, the dynamic of the time-dependent occurrence of author keywords was investigated and shown in fig 5. It could be seen that the number of all main-term occurrences per year increased over time, but some of them grew more dynamically than others. The terms with the highest increase in occurrences over time is Library Management, RFID, digital Library and management systems. Fig 6 represents the trending topics in the Library Management and Administration field. Information management, Management of digital libraries and management systems are the some trending topics found in the retrieved data.

Words	Occurrences
library management	103
information management	30
digital libraries	27
radio frequency identification (RFID)	23
management systems	17
administration	16
information science	12
university libraries	12
information technology	11
information services	9

Fig 4: Word Cloud (Author's Keywords)

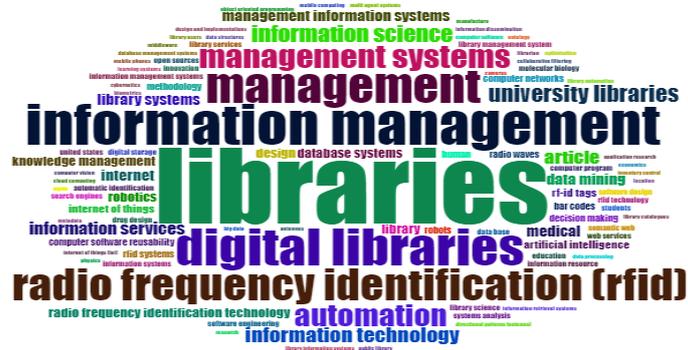


Fig 5: Word Growth

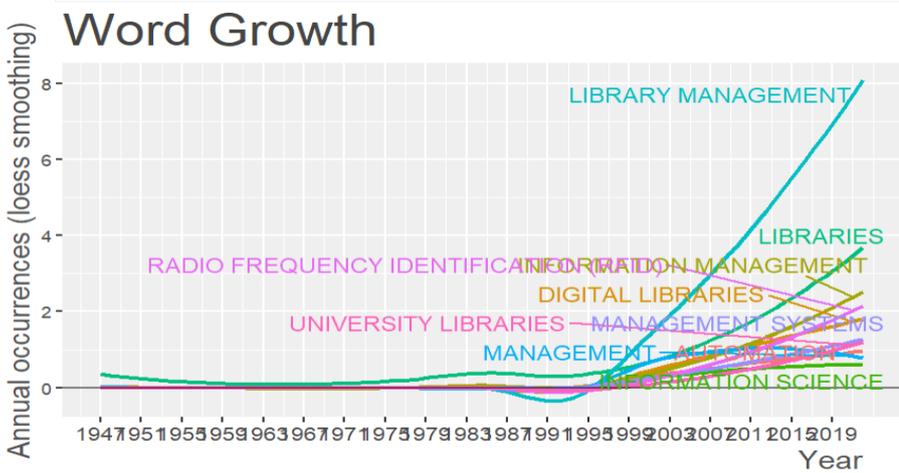
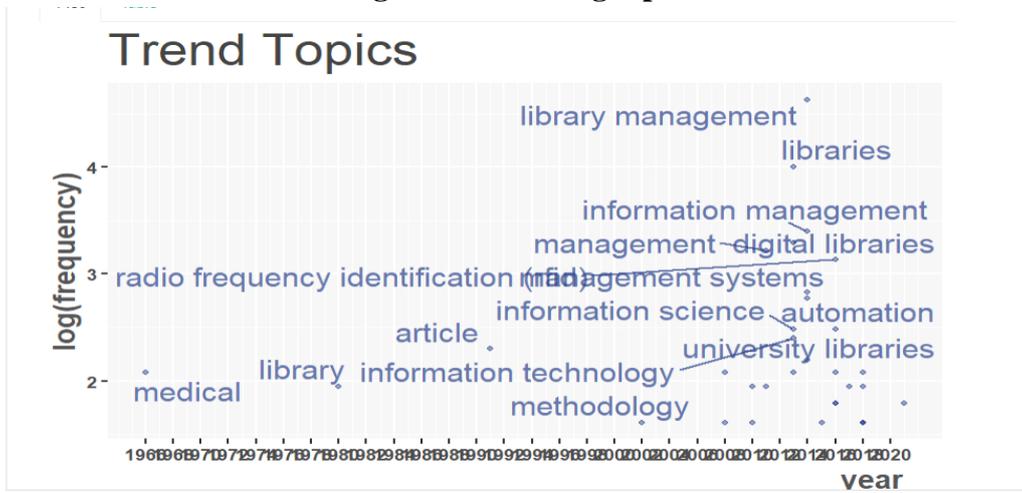


Fig No 6: Trending topics



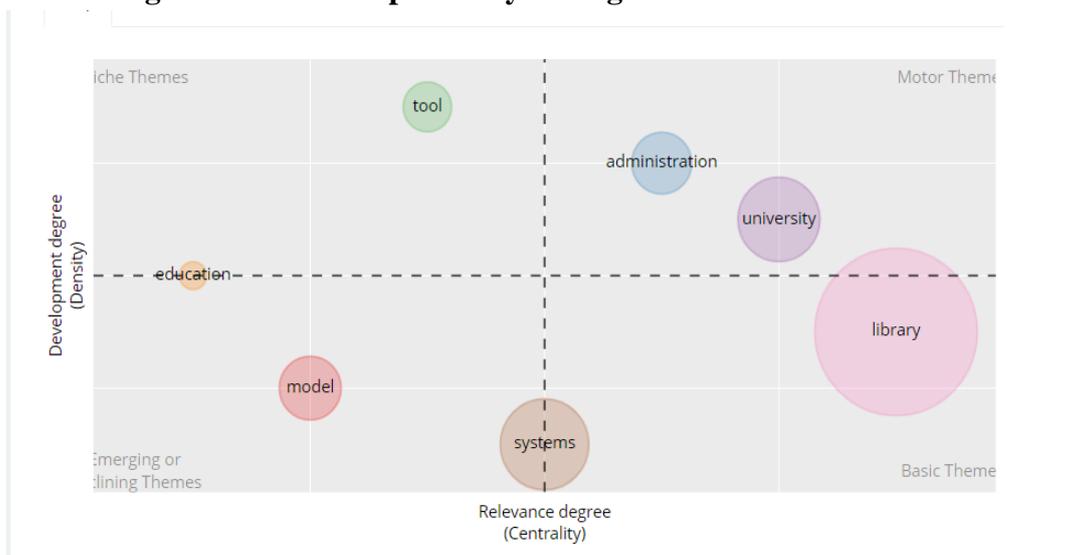
Keywords co-occurrence shown in the fig 7, the unique keyword Library Management is linked with all the aspects which are related to the library management and administration like ICT management, information management, staff management, information management, content management, disaster management and digital management and so on.

Fig 7: Keywords co-occurrence with library management



Fig 8, thematic map analyzes themes according to the quadrant in which they are placed firstly upper-right quadrant: motor-themes secondly lower-right quadrant: basic themes thirdly lower-left quadrant: emerging or disappearing themes and fourth upper-left quadrant: very specialized/niche themes

Fig 8: Thematic Map: library management and administration



7. Conclusion

This bibliometric review offers an updated historical perspective on the development of Library Management and Administration studies and illustrated the role performed by various contributors. The present study analyzed the global research on Library Management and Administration output published during 1926 to 2021 from Scopus database. It is observed that the publications are steadily growing up. USA topped the list with highest publication (108) followed by China (81) and India (74). The top cited countries includes UK (404), USA (178) and India (138). Information management, digital management, management tools and systems are the some trending topics. Very few studies were found on the library management and administration globally compared to the past decades which is much needed aspect in the present digital world. There are separate management studies and techniques for digital content, for library staff and content management and so on but one need to understand that all these aspects comes under one roof called library, so there is need to find the framework or system or tool or technique to manage library as a whole.

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