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**Proceeding of the 1st Library and  
Information Professional Seminar (2020)**

# **LibPro 2020**

**LIBRARY AND INFORMATION PROFESSIONAL SEMINAR  
"Innovative Information Management : Towards a  
Reading Nation"**



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# **Innovative Information Management: Towards a Reading Nation**

Proceeding of the 1<sup>st</sup> Library and Information Professional Seminar  
(LIBPRO 2020) Shah Alam, Malaysia, 10 November 2020

Organized by  
Perpustakaan Tun Abdul Razak  
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## TABLE OF CONTENTS

### **Keynote Speaker** - Mrs. Iris Hsu

Title: A.I and Library: Level Up Research Support

Institutional Repository Access Policy in Public University Libraries in Central Java, Indonesia <i>MZ Eko Handoyo &amp; Atin Istiarni</i>	1-12
Bibliometric Review of Malaysian Journal of Library and Information Science 1996-2019 <i>Muslim Ismail@Ahmad, Roslina Othman &amp; Mohd Nasir Ismail</i>	13-19
State-Of-The-Art Bibliometric Review of Library Research 2018-2020 In Scopus Database <i>Muslim Ismail@Ahmad, Noor Rahmawati Alias, Rosmariyati Ab Rahman &amp; Alina Hussin@Hussein</i>	20-26
Success Factor of Web Integrated Library System and Job Satisfaction in Academic Libraries <i>Mawar Noor Binti Abdullah</i>	27-40
Evaluation Of Utilization Of Digital Library Applications Universitas Muhammadiyah Sumatera Utara <i>Muhammad Arifin &amp; Isva Affannura Khairi</i>	41-47
Customer Driven Approach In An Organizational Learning: A Case Information Agency <i>Shahidatul Akhmam Rambeli &amp; Alwi Mohd Yunus</i>	48-58
IFLA WLIC 2018 Volunteers: Sharing Experience from Social Media Assistant Team <i>Nurul Diana Jasni, Mohd Ikhwan Ismail, Amirul Firdaus Zilah &amp; Mohd Faizal Hamzah</i>	59-72
A Bright Future For The Library And Library Professional <i>Nur Afeqah Abdullah &amp; Nur Syafiqah Hassan</i>	73-84
From Damansara To Gombak: Experience Of Dar Al-Hikmah Library Moving A Law Library <i>Irni Izwah Abu Bakar</i>	85-96
Declining Number of Books Borrowing at An Academic Library in Johor <i>Nur Azleen Binti Hasan, Mawar Noor Binti Abdullah &amp; Noor Hasanah Binti Mohd Hanafi</i>	97

READ@USM: #readunium #jombacausm #usmmembaca #malaysiamembaca #dekadmembaca <i>Nor Azan Ibrahim et. Al</i>	98
Scavenger Hunt: Latihan Kemahiran Literasi Maklumat Dikalangan Pelajar Interim UiTM Johor Kampus Segamat <i>Ts. Dr. Syamsul Hendra Bin Mahmud, Mawar Noor Binti Abdullah &amp; Siti Rozana Binti Mat Sanat</i>	99
IMU Central Digital Repository (CDR) <i>Norzilamazni Saniman &amp; Zuhanariah Mohd Nordin</i>	100
The Challenges Of Establishing Digital Library Services In An Open Distance Learning (ODL) <i>Zubaydah Binti Zamri &amp; Norazleen Binti Mohamad Noor</i>	101
An Innovative Library Programme To Promote Reading Culture <i>Hasniza Amno, Lizawati Muhammadan, Muhamad Amin Azmi, Mohamed Hafiz Mansor &amp; Bakiah Shahrudin</i>	102
Request Book And Article System (RBAS): Tools, Techniques And Outcomes <i>Hasniza Amno, Rugayah Ali, Nur Hanida Abd Rahim, Zulkifli Zainol, Waheeda Mat Nashir, Nurul Huda Abd Jais &amp; Hafiz M Zin</i>	103
Reading For All: A Story From Chow Kit <i>Nurfarawahidah Badruesham</i>	104
<b>Committee Members</b>	105-109
<b>Author Index</b>	110

# Bibliometric Review of Malaysian Journal of Library and Information Science 1996-2019

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## ABSTRACT

*Scopus database was used in this journal bibliometric review of the Universiti Malaya based journal, the Malaysian Journal of Library and Information Science, (MJLIS). This research presented data analysis of authors' productivity, highest cited papers, documents by country, documents affiliations, and documents funding sponsor. This paper is inspired by bibliometric method and studies particularly in the context of Malaysian bibliometrician specifically those of Tiew, Abrizah, and Kiran, (2002). Based on co-word analysis MJLIS has produced 415 documents from 1996 to 2019, mainly on bibliometric studies, Malaysia, scientometrics, and academic libraries. In this research, VOSviewer was used to analyze citation network in MJLIS papers and identify high cited papers in the citation network.*

**Keywords:** *Bibliometric, Malaysian Journal of Library and Information Science, co-word analysis, citation network, VOSviewer*

## 1.0 INTRODUCTION

The Malaysian Journal of Library and Information Science (MJLIS) is a Scopus and Web of Science (WoS) indexed journal and it is currently publishing three times a year in April, August and December by the Faculty of Computer Science and Information Technology, University of Malaya. MJLIS's output is mainly publication of original research articles in the field of library and information science (LIS) as well as related domains that encapsulate information and knowledge. The journal also encourages contribution on research about professional policies, practices, principles and progress in the LIS fields. MJLIS presence as a professional journal in LIS is to provide a forum for communications amongst LIS professionals especially within the Asia Pacific region, to introduce new concepts, methodologies, systems and technology. Chronologically, between 1996 and 2008 the journal has published articles both in print and

electronic and from 2009 onwards only the electronic version has been made available (<https://ejournal.um.edu.my/index.php/MJLIS>). As of February 2020, the journal is being indexed and abstracted by Clarivate Analytics' Web of Science (Q3) and Elsevier's Scopus (Q2), (Malaysian Journal of Library & Information Science MJLIS, 2020).

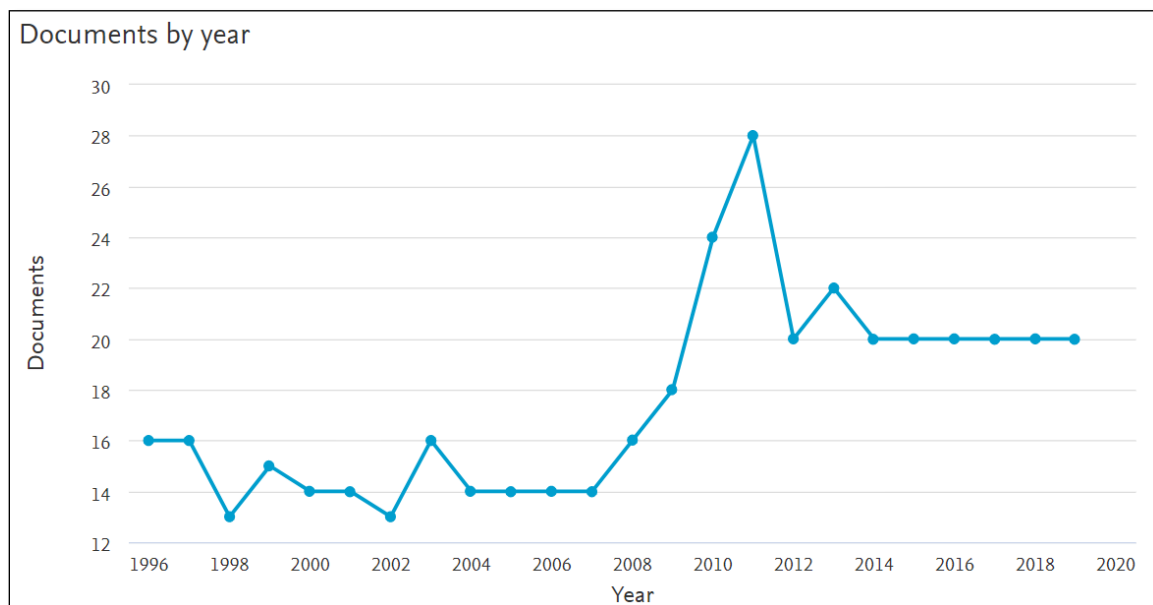
## 2.0 METHODOLOGY

This study utilized bibliometric method to analyze the content of MJLIS in the context of co-occurrence of keywords and citation network. State-of-the-art bibliometric software, VOSviewer supplemented the Scopus data analysis. Scopus query for journal content was used in the following query code, SOURCE-ID ( 7600153106 ). The query code extracted all MJLIS papers from 1996 to 2019. In total, there are 421 documents. Average paper output for the last ten years is 20 articles per year which is an increase of 25% number of papers during their first ten years, from 1996 to 2006. Between 1996 to 2006, MJLIS average articles per year was only 15 documents.

Data extracted from Scopus is analyzed using Scopus analyzer in which data analysis of authors' productivity, highest cited papers, documents by country, documents affiliations, and documents funding sponsor is reported graphically. This study also utilized VOSviewer to visualize the sciences of MJLIS's content. Co-word or co-occurrence of keywords of all MJLIS papers is graphically visualized. In the analysis, apparent trends in MJLIS research topics are identified and potentially emerging research direction suggested.

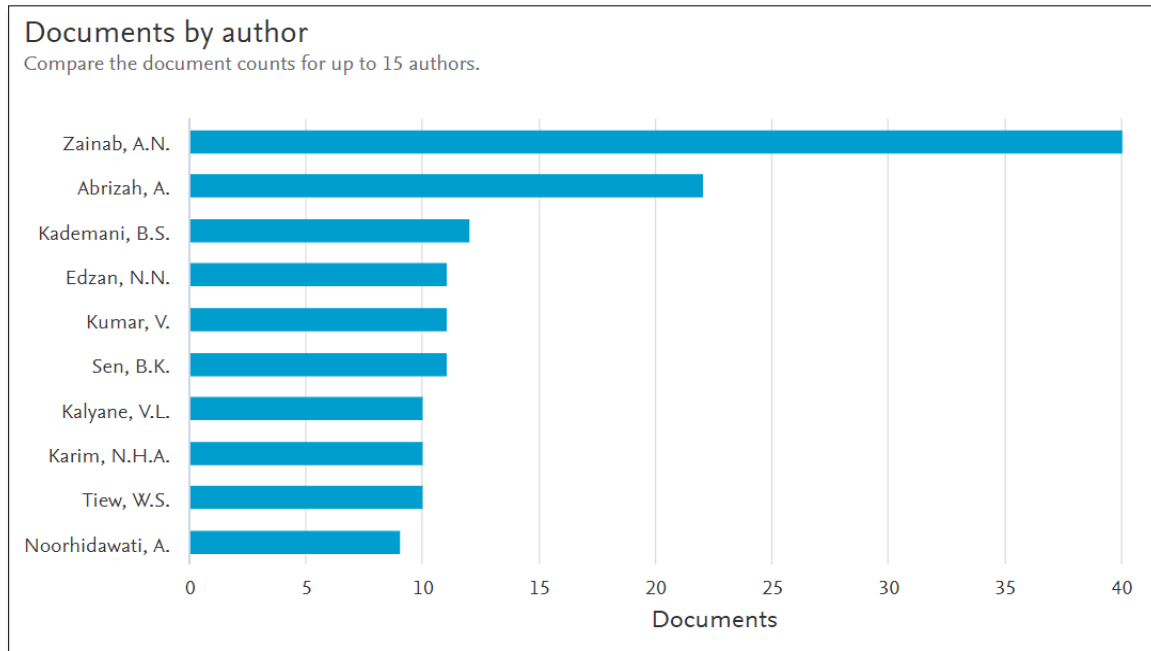
## 3.0 RESEARCH RESULT

In terms of paper per year, MJLIS has consistently produced an average of 20 papers in the last 10 years as in Figure 1. MJLIS paper production has significantly increased in the recent 10 years in comparison to its first ten years with an average of 20 papers per year in comparison to 15 papers per year during 1996 to 2006.



**Figure 1.** Screenshot of MJLIS document by year production in Sc

In the context documents by author, Prof Dr Zainab Awang Ngah has the highest number of papers in MJLIS with 40 associated papers. In the second place is Prof Dr Abrizah Abdullah with 22 associated papers. The top 15 authors in MJLIS is shown in Figure 2 below.



**Figure 2.** Screenshot of MJLIS top 10 documents by author in Scopus

In terms of MJLIS highest cited paper, Ismail and Zainab's (2005) study on the pattern of e-book usage among undergraduates received 51 citations. In second place is a study by Anyi et al., (2009) on the bibliometric review of single journals with 49 citations. In third is Ramayah and Aafaqi, (2004) study on the role of self-efficacy in e-library usage Malaysian public university students which received also 49 citations. Fourth highest cited paper is Wang et al., (1996) that used bibliometric indicators to compare universities' scientific performance. Abrizah et al., (2010) studied the open access institutional repositories among Asian universities in the context of global visibility. Top 5 MJLIS cited papers is shown in Table 1 below.

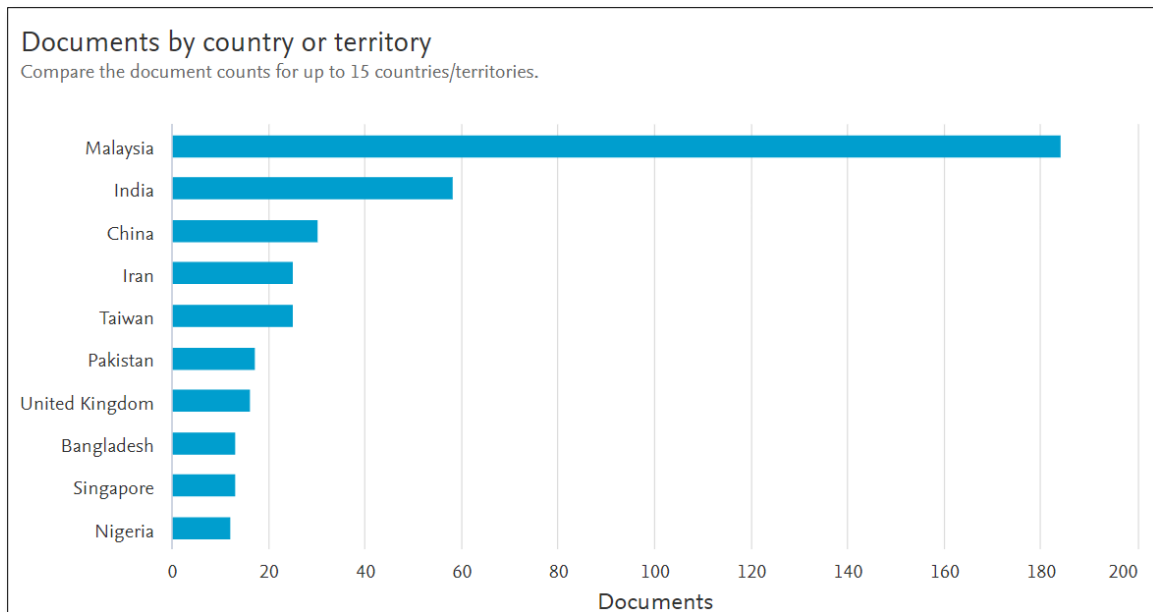
**Table 1.** MJLIS highest cited papers in Scopus as of February 2020

AUTHOR & YEAR	TITLE	CR
Ismail & Zainab, (2005)	The pattern of e-book use amongst undergraduates in Malaysia: A case of to know is to use	51
Anyi et al., (2009)	Bibliometric studies on single journals: A review	49
Ramayah & Aafaqi, (2004)	Role of Self-Efficacy in e-Library Usage Among Students of a Public University in Malaysia	49
Wang et al., (1996)	Comparison of universities' scientific performance using bibliometric indicators	40
Abrizah et al., (2010)	Global visibility of Asian universities' open access institutional repositories	38

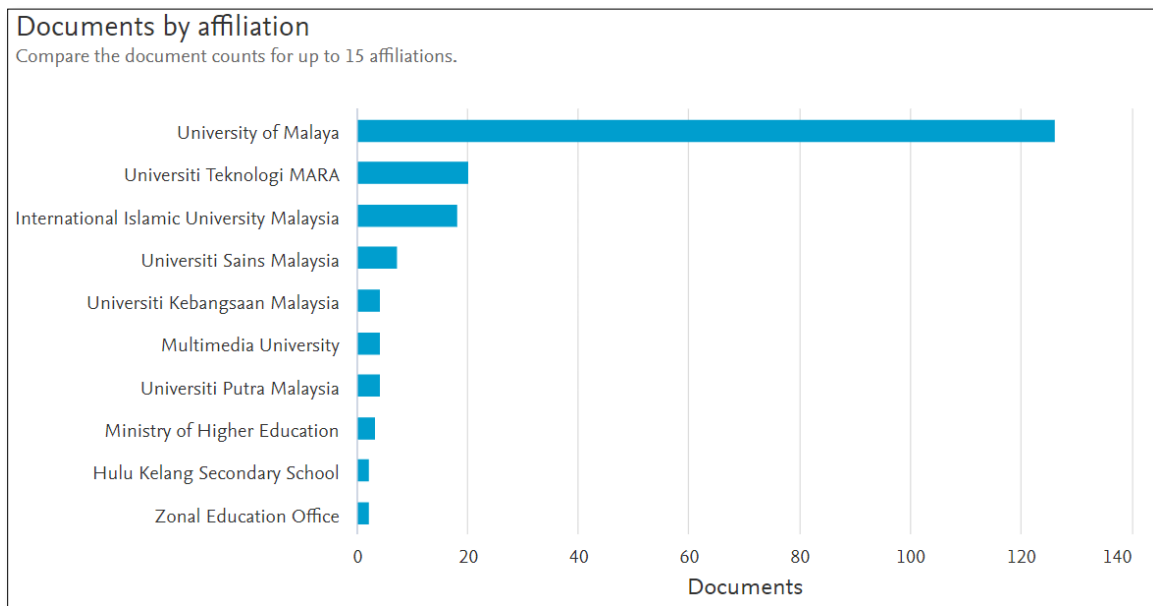
\*CR=Citation Received



MJLIS research and studies were mainly focusing on local issue as 43.7% of the content were conducted in Malaysia. India is in second place with 13.7% and China in third spot with 7.1% of the journal content research study. Documents by country statistics is shown in Figure 3 below.



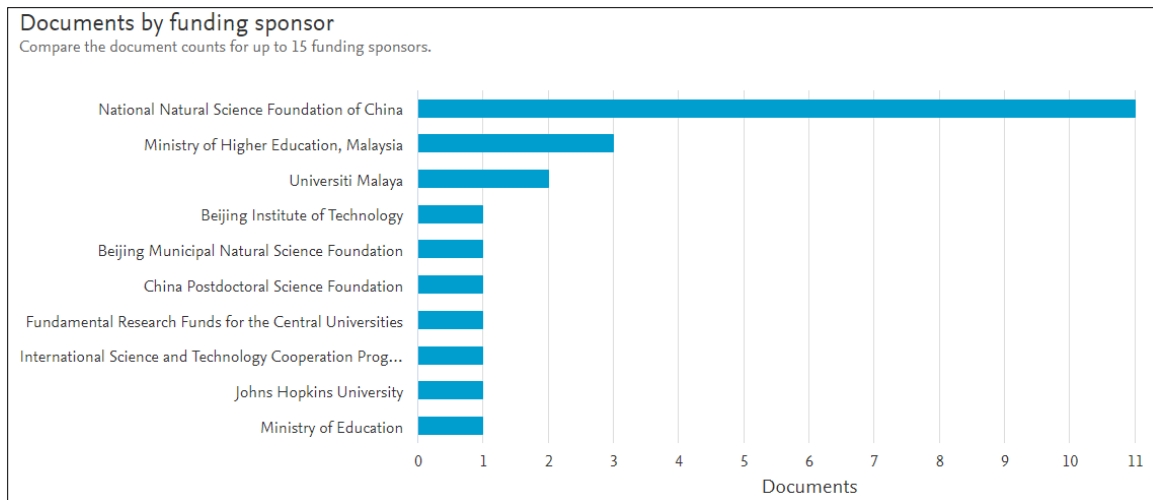
**Figure 3.** Screenshot of MJLIS top 10 documents by country in Scopus



**Figure 4.** Screenshot of MJLIS top 10 documents by affiliation in Scopus

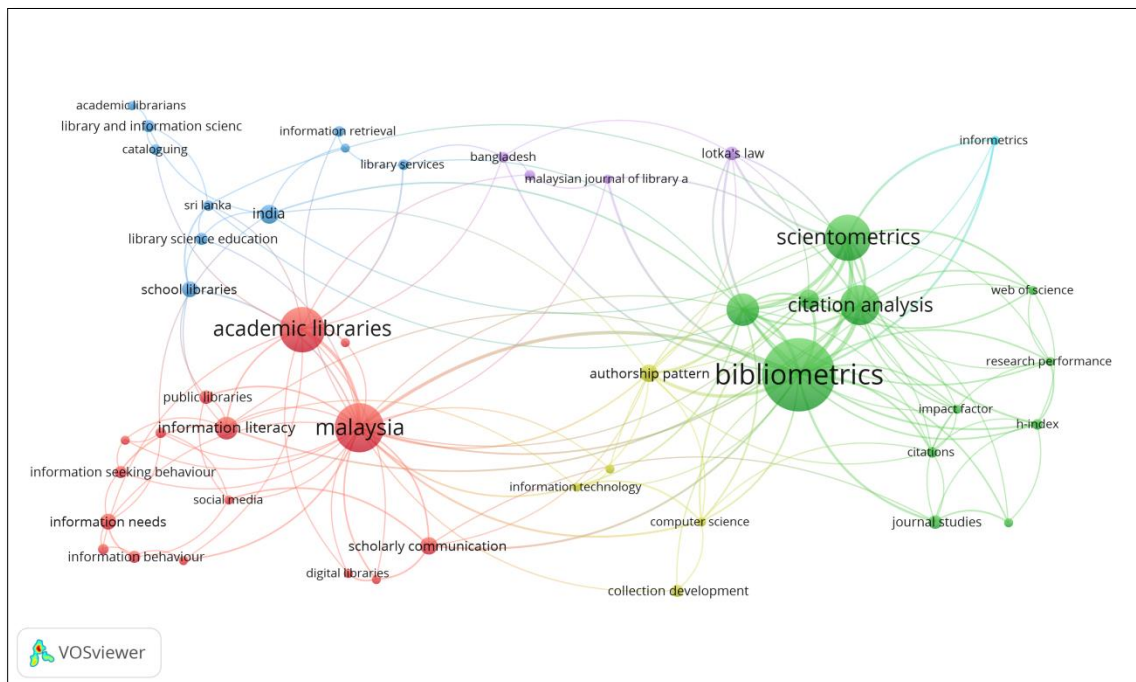
Document affiliation is the authors' related institution that were presented in the documents. The analysis showed that University of Malaya is at the top, in terms of affiliation of documents by 29.9% of MJLIS content. The top of MJLIS documents by affiliation is shown in Figure 4 above. Documents by funding sponsor is dominated by studies funded by National Natural Science

Foundation of China with 11 documents. Research grants by Malaysian Ministry of Higher Education and University of Malaya are in second and third place with 3 and 2 documents respectively. The tabulation of documents by funding sponsor is shown in Figure 5 below.



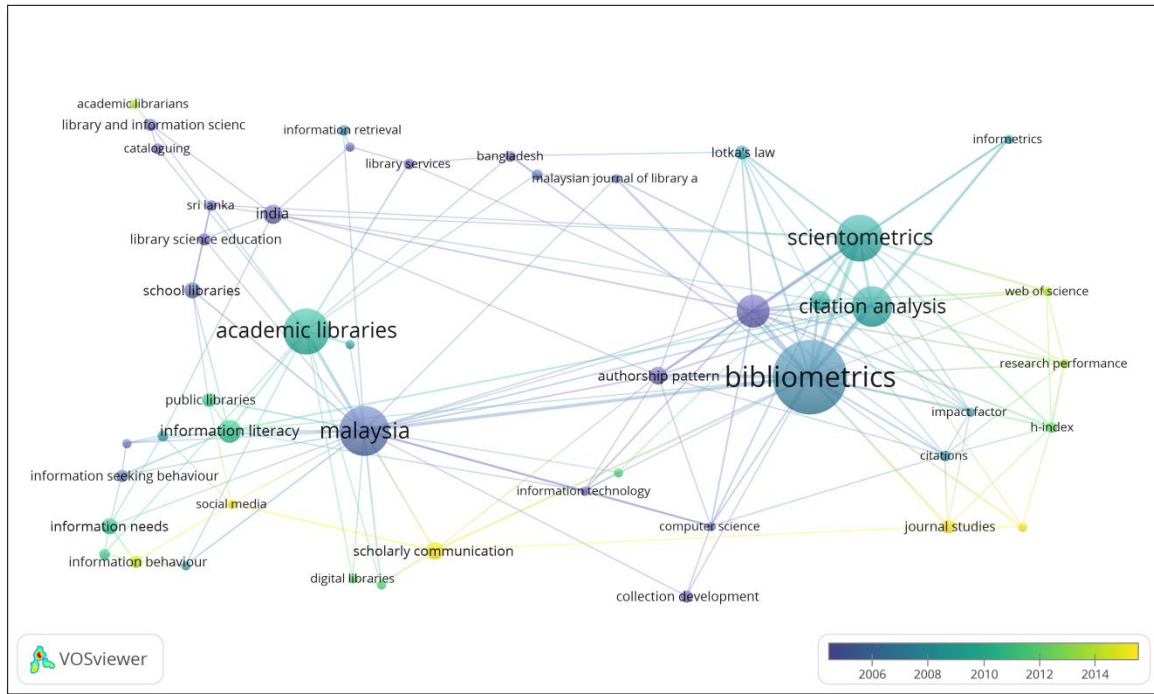
**Figure 5.** Screenshot of MJLIS top 10 documents by sponsor in Scopus

In the analysis of co-word or co-occurrence of key terms of MJLIS documents, VOSviewer was used to visualize the sciences from data collection. As shown in Figure 6 below, bibliometrics, citation analysis, scientometrics, Malaysia, and academic libraries are the most frequently used terms in MJLIS content.



**Figure 6.** Screenshot of co-word analysis in VOSviewer network visualization

In the analysis of paper recency, several terms were identified as the most recent topics in MJLIS namely journal studies, scholarly communication, information behavior, web of science, and research performance. In VOSviewer, paper recency is visualized in the overlay visualization shown in yellow color by default as in Figure 7 below.



**Figure 7.** Screenshot of word recency analysis in VOSviewer overlay visualization

#### 4.0 CONCLUSION

This bibliometric study presented data from MJLIS content and has visualized the sciences using state-of-the-art software. In the last years, MJLIS has consistently produced on average 20 papers per year. Prof Dr Zainab Awang Ngah and Prof Dr Abrizah Abdullah are two most prominent authors in MJLIS as proven from the data. Ismail and Zainab, (2005), Anyi et al., (2009), and Ramayah & Aafaqi, (2004) are the most cited authors in MJLIS with 51 and 49 citations respectively. Malaysia is the most studied country and most authors are affiliated to University of Malaya. Most of the research in MJLIS are funded by National Natural Science Foundation of China with 11 documents and Malaysian Ministry of Higher Education in second place with 3 documents. Bibliometrics, citation analysis, and scientometrics are the most used researched topics in MJLIS and the recent topics are about journal studies and scholarly communication.

#### 5.0 ACKNOWLEDGEMENT

Access to the Scopus database was provided by Perpustakaan Tunku Abdul Razak, Universiti Teknologi MARA Malaysia, Shah Alam.

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- Mrs. Rozita Binti Sharudin**  
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## Author Index

<i>Alina Hussin@Hussein</i>	20
<i>Alwi Mohd Yunus</i>	48
<i>Amirul Firdaus Zilah</i>	59
<i>Atin Istiarni</i>	1
<i>Bakiah Shaharuddin</i>	102
<i>Hafiz M Zin</i>	103
<i>Hasniza Amno</i>	102, 103
<i>Irni Izwah Abu Bakar</i>	85
<i>Isva Affannura Khairi</i>	41
<i>Lizawati Muhammadan</i>	103
<i>Mawar Noor Binti Abdullah</i>	27, 97, 99
<i>Mohamed Hafiz Mansor</i>	102
<i>Mohd Faizal Hamzah</i>	59
<i>Mohd Ikhwan Ismail</i>	59
<i>Mohd Nasir Ismail</i>	13
<i>Muhamad Amin Azmi</i>	102
<i>Muhammad Arifin</i>	41
<i>Muslim Ismail@Ahmad</i>	13, 20
<i>MZ Eko Handoyo</i>	1
<i>Noor Hasanah Binti Mohd Hanafi</i>	97
<i>Noor Rahmawati Alias</i>	20
<i>Nor Azan Ibrahim et. Al</i>	98
<i>Norazleen Binti Mohamad Noor</i>	101
<i>Norzilamazni Saniman</i>	100
<i>Nurfarawahidah Badruesham</i>	104
<i>Nur Afeqah Abdullah</i>	73
<i>Nur Azleen Binti Hasan</i>	97
<i>Nur Hanida Abd Rahim</i>	103
<i>Nur Syafiqah Hassan</i>	73
<i>Nurul Diana Jasni</i>	59
<i>Nurul Huda Abd Jais</i>	103
<i>Roslina Othman</i>	13
<i>Rugayah Ali</i>	103
<i>Shahidatul Akhmam Rambeli</i>	48
<i>Siti Rozana Binti Mat Sanat</i>	99
<i>Syamsul Hendra Bin Mahmud</i>	99
<i>Waheeda Mat Nashir</i>	103
<i>Zubaydah Binti Zamri</i>	101
<i>Zuhanariah Mohd Nordin</i>	100
<i>Zulkifli Zainol</i>	103

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