

Scientometric Analysis Of Articles Contributions To Web Of Science On Quality Assessment And Higher Education

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Abstract

The study examined the research productivity of the global research on Quality Assessment and Higher Education during 2012-2016. There were 1990 research papers published and indexed in the WoS database for five (5) years from various HEIs across the globe. This study revealed that the number of research articles was highest at 1,757 (88.29%) in the types of documents. and in 2016 the highest number of publications was published. The University of California System, USA 81 (13.92%) was produced more number of documents during the study period. The USA contributes the most publications. English language is the most widely used for publications. The Department of Health and Human Services, USA 182 (39.65%) was the leading funding agency in the world on this theme. Education Educational Research, 469 (27.27%) were the leading research areas during this study. The research on the theme of Quality Assessment and Higher Education will be helpful for further research among researchers and educators in the field of Higher education and library professionals.

Key word: Higher Education, Scientometric Analysis, Quality Assessment, Web Of Science

1. Introduction

The research publication on quality assessment in higher education is one of the most important aspects of evaluating various quality assessment institutions. Evaluation of research productivity of institutional research and developmental activities highlights the contribution of the institution and the individuals engaged in research. Therefore; this research aims to provide the publication productivity of various quality assessment institutions and their relation to improving the quality of higher education. Nowadays there are many Citation databases are available to know the publication output of the institutions. This study is chosen from one of the leading databases which is called the WoS database this study aims to know the

research productivity on the theme of quality assessment and higher education in various HEIs across the globe, it helps to improve the quality of higher education. Quality has become an increasingly critical success factor at higher education institutions.

2. Research Questions

The fundamental target of this exploration is to examine the distributions of Quality Assessment and Higher Education literature published during 2012-2016 and indexed in the WoS database.

- Identify the year wise publication on Quality Assessment and Higher Education
- To find out kinds of the documents published on Quality Assessment and Higher Education

- Trace out the highly published countries on Quality Assessment and Higher Education
- Identify the most relevant affiliation on the theme of Quality Assessment and Higher Education
- To reveal the most preferred Languages on Quality Assessment and Higher Education
- To find out the top Funding Agencies on Quality Assessment and Higher Education
- To know the leading research areas on the theme of Quality Assessment and Higher Education

3. Methodology

The present study analyzed 1990 global research output publication on the topic of Quality Assessment and Higher Education published from 2012 to 2016. The search term "Quality Assessment and Higher Education" was used to retrieve the publications indexed by the Web of Science citation database then, data was analyzed as per the objectives of the study. This study examines a wide range of publications out-put on Quality Assessment and Higher Education in terms of Documents, authors, affiliation, year-wise publications, etc.

4. Review related literature

K G Sudhier and Abhila I S (2011), The study examined the research publication of social scientists at the Centre for Development Studies, Thiruvananthapuram, from 19998 to 2008. The total of 599 research papers published by the Centre for Development Studies researchers. The maximum number of publications was published in 2008. Kerala's developmental issues (32%) were the leading areas of research in this study. The highest of the contributions were singe- authored (56.59%) More than 66% of journal articles published are in Indian journals. Economic and

Political Weekly, contributes the highest number of articles, 79 (34.50%) followed by Indian journal of Labour Economics with 7 (3.06%).

Brika SKM, Algamdi A, Chergui K, Musa AA and Zouaghi R (2021), The HE has attracted increasing interest from students, scholars, and academic institutions worldwide for more than three decades. The purpose of this student is to analyze the literature on the quality of higher education, the VOSviewer software was used to examine the data of 500 papers that were published in the WoS between 2000 and 2018 on the subject. The findings were discussed and presented with the following methods: authors, references, keywords, research institutions, and countries. According to the study, bibliometric analysis is essential for describing the theoretical literature and developing an integrated theoretical framework on the quality of higher education.

Shahzad Khuram, Ch. Abdul Rehman, Nadia Nasir, Natasha Saman Elahi, (2023), The purpose of this study is bibliometric overview of quality assurance research in HEIs from 1993 to 2022 and to identify important trends. Scopus database was used to retrieve data from 321 selected articles from 191 various sources. The methodology has included science mapping with bibliometric indicators such as bibliometric coupling, citations and co-citation analysis. The data was Analysed using R-package and VOSviewer in Biblioshiny. The result indicates an increase in the number of authors and articles per paper was highlighted in Quality Assurance key issues, the most promising Quality Assurance practices, and the theme for future research. This study has major importance to orient HEIs Quality Assurance process towards the evaluation of the university's societal impact.

5. Data analysis and interpretation

5.1. Kinds of Documents

Table: 1 Kinds of Documents

Kinds of Document	Number of Records	Percentage (%)
Article	1,757	88.29%
Review Article	220	11.05%
Proceeding Paper	16	0.80%
Editorial Material	12	0.60%
Book Chapters	1	0.05%
Book Review	1	0.05%
	2,007	100.85%

Table 1 shows a collection of documents used in research with the theme of Quality Assessment and Higher Education. The total number of documents were published 2007 which are divided into six different kinds of documents,

including journal articles (1757 documents), Review Articles (220 documents), proceedings papers (16 documents), editorial material (12 documents), book chapters (1 document), book review (1 documents), Based on the results of the

grouping of document types above, the kinds of documents that is most widely used as the subject

5.2. Year wise publications

Table: 2 Year wise publications

Publication Years	Number of Records	Percentage (%)
2016	495	24.87%
2015	436	21.91%
2014	423	21.26%
2013	325	16.33%
2012	311	15.63%
	1990	100.00%

The total number of publications on the theme of Quality Assessment and Higher Education produced and indexed in the WoS database for the study period comes to 1990 publications and the data are presented in Table 2. The Table reveals that the maximum number of research publications were brought out in the year 2016 (24.87%) and next in the year 2015 (21.91%) respectively. The other periods in the next rank order are 2014 (21.25%) and 2013 (1.33%) with 325

of research on the theme of Quality Assessment and Higher Education.

and 311 publications respectively. The table also indicate that a very less number of publications have been added in the year 2012 (15.62%). Year-wise growth has an increasing trend from the year 2012 to 2016, which has slowed down to some extent for the years 2014 and 2015. The increasing trend of publication output from 2016 has been clearly visible from the table.

5.3. Affiliation wise distribution of publications

Table: 3 Affiliation wise distribution of article

Affiliation	Number of Records	Percentage (%)	Rank
University of California System, USA	81	14.75%	1
University of Michigan, USA	80	14.58%	2
University of London, UK	72	13.11%	3
University of Toronto, Canada	59	10.75%	4
Harvard University, USA	48	8.74%	5
University of Sydney, Australia	47	8.56%	6
Johns Hopkins University, USA	45	8.20%	7
N8 Research Partnership, UK	43	7.83%	8
University of North Carolina, USA	40	7.29%	9
University of Texas System, USA	34	6.19%	10
	549	100.00%	

The Number of publications on the theme of Quality Assessment and Higher Education published in top Affiliations is appear in Table 3. The majority of research publications have been published from the University of California System, USA 81 (14.75%) followed by the

University of Michigan, USA 80 (14.58%) and the University of Toronto, Canada 59 (10.57%). The table also shows that 43 (7.83%) publications have been published N8 Research Partnership, UK followed by the University of Texas System, USA 34 (6.19%).

5.4. Country wise distribution of publications

Table: 4 Country wise distribution of publications

Country	Number of Records	Percentage (%)	Rank
USA	712	39.14%	1
England	243	13.36%	2
Australia	215	11.82%	3
Canada	173	9.51%	4
Germany	102	5.61%	5
Netherlands	98	5.39%	6
Spain	89	4.89%	7
People's Republic of China	82	4.51%	8
Italy	54	2.97%	9
Sweden	51	2.80%	10
	1819	100.00%	

The research publications are identified as ten countries and the country-wise number of publications on the theme of Quality Assessment and Higher Education produced is shown in Table 4. The table shows that the total number of research publications produced from the top ten countries is 1819.

It is reflected from the table that 712 (39.14%) publications have been published from the USA. It

is followed by England with 243 (13.36%). Third and fourth places are occupied with Australia 215 (11.82%) and Canada 173 (9.51%). It is also shown that, very less publications have been published from the People's Republic of China 82 (4.51%), Italy 54 (2.97%) and Sweden 51 (2.80%).

5.5. Language wise distribution of publications

Table: 5 Language wise distribution of publications

Language	Number of Records	Percentage (%)	Rank
English	1,912	96.66%	1
German	31	1.57%	2
Spanish	24	1.21%	3
Portuguese	4	0.20%	4
Turkish	4	0.20%	4
French	3	0.15%	5
	1,978	100.00%	

Table 5 shows that the most of the research publications have been published in English Language 1,912 (96.66%) followed by German 31 (1.57%) and Spanish 24 (1.21%). The data presented in the table also demonstrates that 4 (0.20%) publications are published from

Portuguese Language and Turkish followed by French 3 (0.15%) respectively.

5.6. Funding Agencies wise distribution of publications

Table: 6 Funding Agencies wise distribution of publications

Funding Agencies	Number of Records	Percentage (%)
Dept. of Health and Human Services, USA	182	39.65%
National Institutes of Health, USA	166	36.17%
National Institutes of Health Research, USA	42	9.15%
NIH National Cancer Institute, USA	36	7.84%
Canadian Institutes of Health Research, Canada	33	7.19%
	459	100.00%

The study has also identified the leading funding agencies that have funded to the research work.

Table 6 shows that out of 1247 papers, the total numbers produced during the study period,

66(5.29%) are published from the top ten funding agencies the data are presented in Table - 6.

It is observed from the table that the highest number of publications are those supported by The Department of Health and Human Services, USA 182 (39.65%) followed by the National Institutes of Health, USA 166 (36.17%) and The National Institutes of Health Research, USA 42

(9.15%). The above table also indicate that 36 (7.84%) have been sponsored by NIH National Cancer Institute, USA followed by the Canadian Institutes of Health Research, Canada 33 (7.19%).

5.7. Research Area wise distribution of publications

Table: 7 Research Area wise distribution of publications

Research Area	Number of Records	Percentage (%)
Education Educational Research	469	27.27%
Health Care Sciences Services	225	13.08%
General Internal Medicine	209	12.15%
Public Environmental Occupational Health	182	10.58%
Nursing	118	6.86%
Psychology	118	6.86%
Oncology	92	5.35%
Neurosciences Neurology	84	4.88%
Surgery	82	4.77%
Psychiatry	73	4.24%
Rehabilitation	68	3.95%
	1720	100.00%

The total number of research publications published in top research areas is shown in Table 7. The majority of publications have been published from Education Educational Research 469 (27.27%). followed by Health Care Sciences Services 225 (13.08%) and General Internal Medicine 209 (12.15%). It also shows that very less number of research publications have been published from Surgery 82 (4.77%), Psychiatry 73 (4.24%), and Rehabilitation 68 (3.95%).

6. Conclusion

A total of 2007 documents were found during this study period on the theme of Quality Assessment and Higher Education. The highest number of research papers were published in the year 2016 (495) and the lowest number of publications was found in the year 2012 (311). The more number of records published are journal articles (1757 documents), and very less number of records published in book chapters (1 document), and book review (1 document), The majority of publications have been published from The University of California System, USA 81 (13.92%) and less number of publication have been published from Tthe University of Texas System,

USA 34(6.19%). The USA was the top one with 712 (39.14%) publications from top ten countries. And very lowest publications have been published from Sweden 51 (2.80%). The majority of the Publications have been published in English Language 1,912 (96.66%) and very less Publications have been published in French 3 (0.15%). the maximum number of research publications are those supported by Department of Health and Human Services, USA 182 (39.65%) and the less number of publications are those supported by the Canadian Institutes of Health Research, Canada 33(7.19%). The majority of research publications have been published from Education Educational Research 469 (27.27%). And the less number of publications have been published from Rehabilitation 68 (3.95%).

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