

# Analysis of Publication Productivity of 'Total Quality Management' by J- Gate database

Gajanan P. Khiste

Information Scientist Knowledge Resource Center, Dr.Babasaheb Ambedkar Marathwada University,  
Aurangabad

## ABSTRACT

Total Quality Management (TQM) techniques, which are used for various products and services all over the world & J-Gate is a premier research platform, helping to find, analyze, and share information in the sciences, social sciences, arts, and humanities. Therefore, the present study discusses the "Total Quality Management" as reflected in J-Gate for the period from 2003–2017. This study investigates the highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, Source Title or Journal wise.

**Keywords:** J-Gate, Total Quality Management, Publication Productivity

## I. INTRODUCTION

Total Quality Management (TQM) was initially used in manufacturing organizations, but now it is being adopted by service organization, such as Airlines, Banking Institutions, Insurance Co. and health care providers. Total Quality Management (TQM) techniques, which are used for various products and services all over the world, should be applied to the library services also. This will help to improve the library services, shape them as per requirements of the users, assure their, quality, maintain their quality and monitor the same from time to time. It will help to revalidate the library services, make them acceptable to majority of the library users, provide satisfaction to the clientele and impose confidence in the library personnel who are providing these services. Consequently, it will improve the library services, help in the overall development and thus help the profession of librarianship to attain maturity, better social status and come up to the expectation of the society at large. Therefore, considering the importance of TQM the authors have undertaken the study.

## 2. Conceptual Analysis

### 2.1 Total Quality Management

Zaira & Jurow defines it as TQM is the combination of socio-economic and technical process towards doing the right things (externally), everything right (internally) first time and all the time, with economic viability considered at each stage of each process.

### 2.2 J-Gate

J-Gate is an electronic gateway to global e-journal literature. Launched in 2001 by Informatics India Limited, J-Gate provides seamless access to millions of journal articles available online offered by 13,273 Publishers. It presently has a massive database of journal literature, indexed from 47,958 e-journals with links to full text at publisher sites. J-Gate also plans to support online subscription to journals, electronic document delivery, archiving and other related services. a. Table of Contents (TOC) - For 47,958 e-journals. b. Database - A comprehensive searchable database with 53,067,286 articles, with 10,000+ articles added every day.

### 3. Objectives of the Study

1. To Identify Publication Year wise articles published in J-Gate on TQM.
2. To find out highly productive authors on TQM.
3. To Know Geographical distribution of TQM articles by country.
4. To get information writing of Research areas.
5. To know highly preferred journals by the Scientists for writing research papers on TQM.
6. Access availability of TQM articles in J-Gate database.

### 4. Scope & Limitation of Study

This Study is limited to search results on the 'Total Quality Management' in J-Gate database during 2003 to 2017.

### 5. Methods and Materials

The growth of publications in the TQM was derived from the J-Gate during the period 2003 to 2017, a total of full text 1100 articles were found for the Title 'Total Quality Management'. Necessary data was tabulated into separate sheets in terms of authorship pattern, geographical distribution of contributors, ranking list of Sources.

### 6. Review of Related Literature

Kale Vilas A., Deshmukh Rahul K. & Khiste Gajanan P. (2017) discusses the "Consortia" as reflected in Web of Science for the period from 1989–2016. This study investigates the highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, Source Title or Journal wise.

Khiste G.P. (2017) discusses the "Consortia" as reflected in Scopus for the period from 1989-2016. This study investigates the highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, Source Title or Journal wise, etc.

Khiste G.P. & Amanullah Amir (2017) discusses the "Knowledge Management" as reflected in Web of Science for the period from 2007–2016.

Khiste G.P., Deshmukh R.K. & Kale V.A. (2017) discusses the "Bibliometric" as reflected in J-Gate for the period from 2005 to 2016. This study investigates the highly productive authors, Document Type, Geographical distribution by country, etc.

Khiste Gajanan, Gawli Datta Y. & Lavande Suraj T. (2016) discusses concept of Quality, Quality and users Needs, Quality cost, Total Quality Management, Basic concepts of Total Quality Management, Characteristics of Total Quality Management, Total Quality Management in Library, Potential challenges of Total Quality Management. Therefore Total Quality Management in library operation emphasizes teamwork, culture change, individual responsibility / authority, creativity and accountability at all levels.

Khiste G.P., Maske D.B.(2016) focuses on the application of Total Quality Management in Library in different sub-titles such as Need for Quality Management, Total Quantity Management, Basic components of Total Quality Management, Key Elements in Total Quality Management, Total Quality Management and Libraries, Implementation of Total Quality Management in Library. Application of Total Quality Management in Libraries will provide a vital link for managerial decision makers.

Khiste G.P., Maske D.B.& Deshmukh R.K. (2018) discusses the "Knowledge Management" as reflected in Scopus for the period from 2007–2016. The result indicates that there were total 7996 documents on Knowledge Management during 2007 to 2016.

Khiste G.P.& Paithankar R.R.(2017) explained "Bibliometric" as reflected in SCOPUS for the period from 2008–2016. This study investigates the highly productive authors, Document Type, Geographical distribution by country.

Khiste G.P.& Paithankar R.R.(2017) discusses the "Bibliometric" as reflected in Web of Science for the period from 1989–2016. This study investigates the

highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, etc.

Khiste G.P.& Paithankar R.R.(2017) discusses the “Bibliometric” as reflected in Science Direct for the period from 2005 to 2016. This study investigates the Content Type, Documents Published by Year wise, highly preferred journals for Publications.

Maske Dnyaneshwar B, Deshmukh Rahul K & Khiste Gajanan P.(2018) analysed the items on “Information Literacy” as reflected in J-Gate for the period from 2007 to 2016. It investigates the Year wise Contribution, highly productive authors, Geographical distribution by country, etc.

Tekale K.U., Veer D.K & Kadam Santosh D.(2017) discuss the productivity of popular articles made by the faculty of agriculture VNMKV, Parbhani for dissemination of agriculture information among the farmers.

Tekale K.U., Veer D.K & Kadam Santosh D.(2017) discussed on the annual growth and distribution of documents , year wise citation analysis of documents published by faculty of Vasantao Naik Marathwada Krishi Vidyapeeth (VNMKV) which are Indexed with Indian Citation index (ICI) database.

Veer Chaitanya , Veer D. K. & Khiste Gajanan (2018) discusses the “Big Data” as reflected in Scopus for the period from 2012–2016 and investigates the highly productive authors, document types and h-index. The study also aims to find out the top Contributing Indian institutions, the preferred sources for publications by Geographical distribution by country, Subject area, Source Type, Affiliation, and Language etc. The result indicates that there were total 9191 documents with 54129 citations on Big Data during 2012 to 2016.

Veer D.K. & Khiste G.P.(2017) explained about the published documents and its citation from Agricultural Universities in Maharashtra during the

period from 2004 to 2016 by Indian Citation Index (ICI) database.

Veer D.K. & Khiste Gajanan P. (2017) discusses the “Digital Library” as reflected in Scopus for the period from 1995–2016.

Veer D.K. & Khiste Gajanan P. (2018) discusses the Information Literacy as reflected in Web of Science for the period from 1989–2016. This study investigates the highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, Source Title or Journal wise. Documents by Language wise.

### 7. Productive Authors:

The author has analysed the data related to productive authors and it is presented in the Table No 1.

**Table No. 1.** Top 5 Authors which wrote highest articles on the ‘TQM’

Sr. No.	Author Name	No. of articles	Rank
1	Faisal Talib	18	1
2	Zillur Rahman	16	2
3	Rabiul Islam	10	3
4	Rushami Zien Yusoff	9	4
5	M N Qureshi	6	5

Table No. 1 depicts highly productive authors. It is observed that Faisal Talib rank first who has contributed a maximum number of 18 articles, followed Zillur Rahman with 16 articles & on 5<sup>th</sup> rank the M N Qureshi with 6 articles published.

### 8. Geographical Distribution:

The data related to Total Quality Management articles has been analysed by top ten countries and presented it in the Table No.2.

**Table No.2.** TQM: Country wise Analysis

Sr.No.	Country	Articles	Rank
1	India	247	1
2	United Kingdom	240	2
3	United States of America	225	3
4	Switzerland	67	4
5	Netherlands	45	5
6	Pakistan	39	6
7	Canada	26	7
8	Germany	23	8
9	Romania	22	9
10	Iran	18	10

Table No.2 depicts the geographical distribution of authors. Among 1100 articles, India tops the list with 247 articles, followed by United Kingdom with 240 articles to its credit and Iran published 18 articles with rank tenth positions.

### 9. Chronological Analysis:

The author has analysed the data related to Total Quality Management based publications chronologically during 2003 to 2017 presented in the Table 3.

**Table No. 3.** Year wise Articles published in J-Gate on TQM

Sr.No.	Publication Year	Articles	Percentage
1	2017	58	5.27
2	2016	115	10.45
3	2015	148	13.45
4	2014	153	13.9
5	2013	157	14.28
6	2012	104	9.45
7	2011	66	6
8	2010	52	4.73
9	2009	43	3.91
10	2008	30	2.73
11	2007	25	2.28
12	2006	33	3
13	2005	32	2.91
14	2004	43	3.91
15	2003	41	3.73
	<b>Total=</b>	<b>1100</b>	<b>100</b>

Table No.3 shows that year-wise distribution of Articles. The highest number of articles was published in the year 2013 i.e., 157 (14.28%) and the next one with 153 (13.9%) articles was published in

the year 2014& lowest number of article 25 (2.28%) was published in the year 2007.

## 10. Research area wise Analysis:

The author has analysed the compiled data of top - 10 different types of Research Areas and presented it in the Table 4.

**Table No. 4.** Analysis of TQM Articles by Top -10 Research area wise

Sr.No.	Research area	Articles	Rank
1	Business Management	458	1
2	Economics	186	2
3	Quality Management	150	3
4	Education & Careers	86	4
5	Finance	81	5
6	Marketing And Sales	71	6
7	Sociology	71	6
8	Information Science And Systems	58	7
9	Organizational Change And Development	56	8
10	General And Others.(Business, Economy And Management)	53	9
11	Personnel Management & Training	52	10

Table 4 presents the Research Area wise categorization of the articles retrieved. Research Area wise analysis indicates that maximum number of contributions was in the area of Business Management i.e. 458 and on 10<sup>th</sup> rank Personnel Management & Training published 52 articles.

## 11. Highest ranking Journals:

The highest Ranking Journals in which documents the highest number of articles has been published on the term "Total Quality Management". The related information is being presented in the Table 5.

**Table No. 5.** Highest Ranking Journals

Sr. No.	Highest Ranking Journals	Articles	Rank
1	Total Quality Management And Business Excellence	56	1
2	European Journal of Business and Management	21	2
3	International Journal of Quality And Reliability Management	19	3
4	Procedia - Social And Behavioral Sciences	18	4
5	International Journal of Productivity And Quality Management	17	5

Table No. 5 indicates that highest ranking Journals in which articles was published; Total Quality Management and Business Excellence ranks first with 56 articles to its credit, followed by European Journal of Business and Management ranking on second with 21 articles. International Journal of

Productivity And Quality Management is on fifth rank with 17 articles.

## 12. Publication Access Type

Publication access type means type of category of articles whether articles are available Full Text or Non-Full Text through J-Gate Database is defined in Table No.6

**Table No. 6.** Total Quality Management Articles Access Type

Sr.No.	Access Type	Articles	Percentage
1	Full Text Access	746	67.82
2	Non-Full Text	354	32.18
	<b>Total =</b>	<b>1100</b>	<b>100</b>

Table No.6 shows that among total 1100 articles 746 (67.82%) articles are full text and 354 (32.18%) articles are Non-Full text.

### 13. Major Findings & Conclusion

Among 1100 articles, India tops the list with 247 articles, followed by United Kingdom with 240 articles to its credit and Iran published 18 articles with rank tenth positions.

Talib rank first who has contributed a maximum number of 18 articles & on 5<sup>th</sup> rank the M N Qureshi with 6 articles published.

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