

# Growth Pattern of Research Publication by Management Studies Faculty Members in Solapur: A Case study

**Mrs. Rathood Pooja**

Research Scholar, Bharati Vidyapeeth (Deemed to be University), Pune

Yashwantrao Mohite College of Arts, Science and Commerce Pune

Rathodpooja478@gmail.com

**Dr. Sachin Suryawanshi**

Librarian, Bharati Vidyapeeth (Deemed to be University), Pune

Abhijit Kadamb Institute of Management and Social Sciences, Solapur

sachin.suryawanshi@bharatividyapeeth.edu

## Abstract

This paper analyzes the research output of Management Studies Faculties, in Solapur city, from the years 2009 to 2024. The analysis is based on 221 unique research publications sourced from Research Gate. Majority analysis done by year-wise growth, document types, prolific authors, citation patterns, institutional, geographical distribution, and subject-wise research coverage. Highlighting regional disparities in research output.

**Keywords:** Research output, Research Gate, growth of publication, Trends, geographical distribution Global Partnership Research Culture

## Research Publications: -

Research publication is journal, magazine, or other publication. Research publications can help researchers advance their careers and contribute to their field of study.

## Review of Literature

**Gupta, B.M. (2012)** The Scientometric analysis study done on Pakistan's S&T for the period 2001-2010. The study examined various parameters, growth and global output. The research used data from the Scopus database for analysis.

**Swathy S. and Gopikuttan (2013)** faculty research output of three universities various in Kerala, applied with Lotka's law, degrees of collaboration and authorship patterns.

**Mukherjee, Bhaskar (2013)** Bibliometric study done by researcher using Web of Science and Scopus databases majorly focused on authorship patterns and citations.

**Kumar S. (2016)** researcher had used Lotka's Law for to find out trends in author research output in the subject of artificial neural networks from 1994 to 2014. Using the Science Citation Index Expanded, the research compared Nicholls' technique with methods suggested

**Kumar S. (2014)** Using the stratified random methods to measure author output in the field of Human-Computer Interaction (HCI) research. Researcher had studied on 63,137 articles using the K.S. Goodness-of-Fit test through statistical analysis. The findings indicated that Lotka's Law provided reliable results across 18 to 21 data sets.

**Naqvi and Fatima (2017)** conducted a study on international business literature, analyzing 11,202 references from research articles published in the Journal of Business between 2012 and 2014. The study confirmed the applicability of Lotka's distribution using Chi-square and K-S tests. This research provides valuable insights into the development of the international business field.

**Pradhan & Ramesh (2018)** Carried out the study & Analysis that the Comparative research Performances in term of publication output & its Impact in term of Citations during the period . In this Study 72,940 research article,

Bibliographic data was Analyzed of six Indian institute of Technology Institution in India. The study comparative research performance and impact in the term of citation for the time span-2006-2015 of six IIT institutions in India is presented. It is found that the publishing growth rate of articles is increase. In the year it was 5378 and 2015 it was 8405. It is also found that the scientific impact of six IIT is strongly connected and gets the international citations.

**Research Gate: -**

Research Gate started in the year 2008 with the mission of Connecting the World of Science and opens up research to everyone. On research gate, twenty million researchers from one hundred and ninety-nine countries are able to communicate, cooperate, and share their findings.

**Objectives of the Study**

1. To analyze the growth pattern of research publication output of Management studies faculty Members
2. To study the publication type wise of Document
3. To find the most Prolific Author and Cited Authors of Management Studies in Solapur
5. To find out subject wise Contribution of the Faculty Members
6. To find out the International Collaboration in Research Publications and State wise Co-authors contribution in Research Publications
7. To Find out most Contributed universities in Research Publications of Management Studies faculty members in solapur

**Research Methodology**

The data is collected from the “Research Gate” from 2009 to 2024. The present study is limited to Solapur city faculty Members of management studies Uploaded on

“Research Gate” The data is downloaded in Excel sheet are used to extract data from the plain text for further analysis. Quantitative and qualitative analysis of Research Publications Management Studies faculty members

**Scope and Limitations of the study**

The Study covers only to data is uploaded by the Management Studies Faculty members Solapur from 2009 to 2024 on Research Gate. Researcher had analysis accordingly.

**Data Sources**

The data collection was collected for this study from Research Gate, focusing on the research publications of Management Studies faculty members. from 2009 to 2024. A total of 221 research papers were retrieved, with duplicate publications excluded to ensure the accuracy and uniqueness of the data.

**Data Analysis and Interpretation****1. Table No-1. Distribution of Year wise growth of Articles**

Year	No of Article Published	% Out of 221
2009	1	0.45%
2010	1	0.45%
2011	3	1.35%
2012	9	4.07%
2013	11	4.97%
2014	2	0.90%
2015	6	2.71%
2016	7	3.16%
2017	3	1.35%
2018	4	1.80%
2019	6	2.71%
2020	14	6.33%
2021	12	5.42%
2022	34	15.38%

2023	60	27.14%
2024	48	21.71%
<b>Total</b>	<b>221</b>	<b>100</b>

(Source:- <https://www.researchgate.net/>)

form 2009-2019 saw highest publications rate (4.97% with N=11), while 2023 emerged as the most productive year, 27.14% (N=60) of total publications. followed by 2024,21.71% (N=48). These indicate the institute's increasing growth of publication is boost

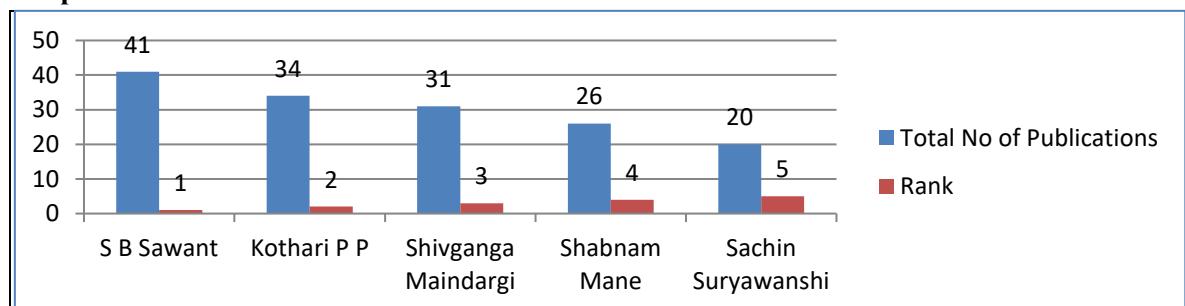
**Table:-2 Document Type wise publications**

Document Type	Numbers	out of 221 %
Research Journal Article	166	75.11%
Conference Paper	21	9.50%
Book Chapter	8	3.61%
Books	5	2.26%
Patent	13	5.88%
Book Review	1	0.45%
Consultancy Project	1	0.45%
Copyrights	6	2.71%
<b>Total</b>	<b>221</b>	<b>100.00%</b>

(Source:- <https://www.researchgate.net/>)

75.11% (N=166) of faculty members, Solapur has produced of its research publications in refereed research journals during 2009-2024,

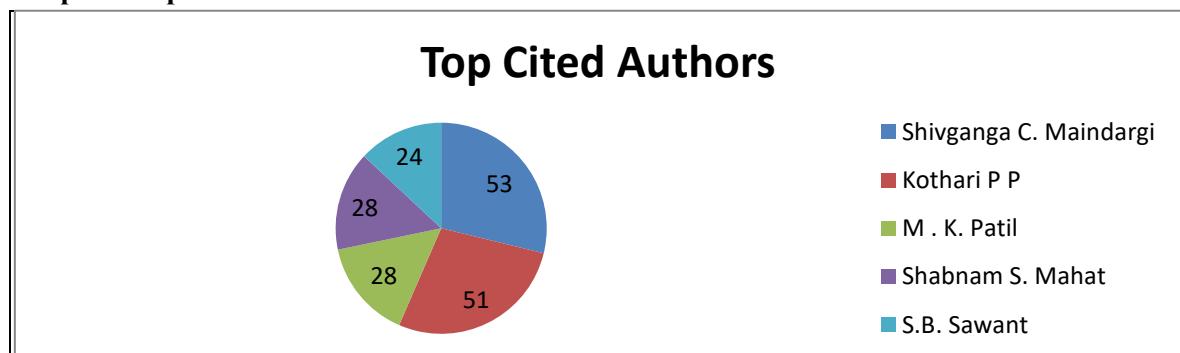
**Graph-1. Most Prolific Authors**



(Source:- <https://www.researchgate.net/>)

Graph 1-highlights the highly productive authors in Management Studies faculty members, showcasing their contributions through various publications, including articles, books, book reviews, copyrights, and patents. The findings reveal that S.B. Sawant holds the top position with 41 publications, followed by Kothari P.P. with 34, and Shivganga Maindargi (31) and Shabnam Mane with (26) Sachin Suryawanshi is also noted with 20 publications.

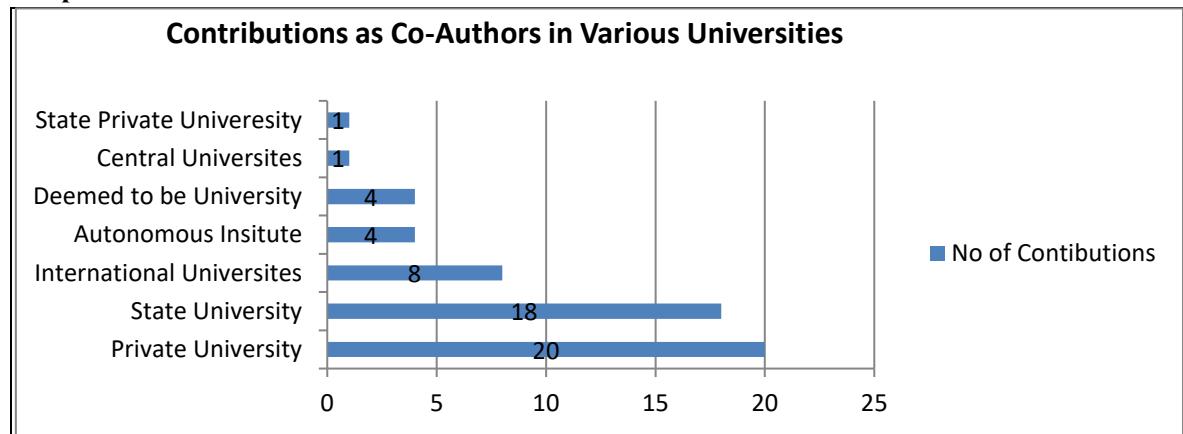
**Graph-2. Top Five Cited Authors**



(Source:- <https://www.researchgate.net/>)

It is observed that Shivganga Maindargi has received the highest number of citations, 53, followed by Kothari P.P. with 51 citations. M.K. Patil and Shabnam Mane have got 28 citations each, while S.B. Sawant has received 24 citations for his publications, securing the fifth position.

### Graph-3. Contribution of Co-Authors form various Universities



(Source:- <https://www.researchgate.net/>) and

(source- <https://www.ugc.gov.in/oldpdf/consolidated%20list%20of%20all%20universities.pdf>)

The study revealed that private universities made the highest contribution to the research productivity of Management Studies faculty members, with 20 articles published between 2009 and 2024, securing the top rank in contributions. This was followed by 20 state universities in India, which also contributed significantly. In terms of international collaboration, Management Studies faculty members collaborated with 8 international universities for their research work. Notably, only four deemed-to-be universities contributed to these international efforts.

### Table- 3 International Collaboration in research Publication

Country	No of Publication	Rank
India	209	1
Oman	06	2
Bahrain	02	3
Georgia	01	4
Korea	01	5
Nigeria	01	6
UK	01	7

The geographical distribution of faculty members by country highlights the global reach and collaboration in research contributions. India leads with the highest number of publications, totaling 209, securing the top rank. Oman follows in second place with 6 publications, Bahrain ranks third with 2 publications, while Georgia and Korea on fourth position, each contributing 1 publication.

### Table-4 State wise Co-authors contributed in of Publications

Sr.no	Name of the State	Total Number of Contributed Co-Authors
1	Maharashtra	532
2	Tamilnadu	17
3	New Delhi	12
4	Karnataka	11
5	Madhya Pradesh	10
6	Rajasthan	10
7	Telangana	10
8	Uttar Pradesh	9
9	Chennai	6
10	Andhra Pradesh	4

The state-wise distribution of publications contributing to research publications reveals a significant concentration of research output in certain regions of India. Maharashtra contributor with a remarkable 532 Co-authors contributed publications, securing the first rank Tamil Nadu follows in second place with 17 Co-author's publications New Delhi ranks third with 12 Co-authors publications, Karnataka takes the fourth position with 11 Co-author's Madhya Pradesh, Rajasthan, and Telangana each contributing 10 Co-authors publications. Uttar Pradesh follows closely with 9 Co-author's publications,

**Table-5 Subject wise Research coverage**

Faculty members at Solapur, a reputable institute that offers academic programs and research in the fields of management, commerce, computer applications, and social sciences. with an emphasis on socioeconomic studies, industry applications, and new trends. Based on published papers, faculty contributions, the research coverage is summarized in the following table.

Subject Area	Published Papers	Faculty Contribution (%)	Key Research Topics
Management Studies	85	38.46%	HRM, Marketing, CSR, Business Analytics, Agribusiness
Commerce & Finance	70	31.67%	Banking, Taxation, Digital Finance
Computer Science	50	22.64%	AI, Cyber security, Data Science
Social Sciences	16	7.23%	Rural Development, Women Empowerment
<b>Total</b>	<b>221</b>	<b>100%</b>	

With 85 papers (38.46%), Management Studies is the top contributor to research publications, according to the table 35.46% have published in Management Studies subject like HRM, marketing, CSR, business analytics, and agribusiness. (31.67%), Commerce & Finance comes in second, (22.64%) from the field of computer science highlight the expanding fields of data science, cyber security, and artificial intelligence. With 16 papers (7.23%), the social sciences contribute

**Result and Discussion**

The study provides a comprehensive analysis of the research Publications of Management Studies faculty members Solapur, from 2009 to 2024, based on 221 unique research publications retrieved from Research Gate. The findings are categorized into several key areas, including year-wise growth, document types, prolific authors, citations, institutional contributions, geographical distribution, state-wise contributions, and subject-wise research coverage. Below is a detailed discussion of the results

Publications were moderate between 2009 and 2019, reaching a peak of 11 publications (4.97%) in 2013. In the 2023 saw the most develop the growth accounting for 27.14% (N=60) of all publications, followed by 2024 with 21.71% (N=48).

Publication of Journal articles majority (75.11%, N=166), placed by faculty members in peer-reviewed research. chapters, patents contributed 3.61%, 2.26%, and 5.88% of the total, while conference proceedings made up 9.50% (N=21). the existence of patents and copyrights (2.71%).

This shows how their research has an impact and is acknowledged by the academic community. With 20 publications, private Universities, followed by 20 state universities in India. Faculty members in Management Studies collaborated with 8 international universities, demonstrating the importance of international partnerships. Only 4 deemed-to-be universities participated indicating potential for greater international involvement.

out of 221 publications, India leads the research contributions, in the research endeavors of Management Studies. With six publications, Oman comes in second, followed by Bahrain (2), Georgia (1), Korea (1), Nigeria (1), and the UK (1).

Maharashtra is the most prominent state in research activities, with 532 contributing authors. Following in order are Tamil Nadu (17), New Delhi (12), Karnataka (11), Madhya Pradesh (10), Rajasthan (10), Telangana (10), Uttar Pradesh (9), Chennai (6), and Andhra Pradesh (4).

with Management Studies (38.46%, N=85) being the most prominent, with a focus on HRM, Marketing, CSR, and Business Analytics. Banking, taxes, and digital finance are among the subjects covered by Commerce & Finance (31.67%, N=70). While Social Sciences (7.23%, N=16) focuses on women's empowerment and rural development, Computer Science (22.64%, N=50) highlights AI, cybersecurity, and data science. The faculty members of Management Studies are committed on multidisciplinary approach.

**Outcome of the Study:** - while facing the accreditation process such as NAAC, NBA, NIRF Ranking, and Q S Ranking patterns it should increase emphasis on the quality and quantity of Research publication and expect that more contribution of their academics and research. So the case study helps to find out the research publication of the Institute in Ranking Process.

## Conclusion

The Management Studies faculty member's significant contributions to research Publication, with a clear upward trend in publications, diverse document types, and multidisciplinary research coverage. The faculty member focus on quality, innovation, and collaboration positions. However, The international collaborations and contributions from institutes. Overall, Management Studies faculty members research efforts reflect its on academic excellence.

Shettar, I. M., & Hadagali, G. S. (2020). Scientometric analysis of research publications of National Institutes of Technology. *SRELS Journal of Information Management*, 57(2), 84–100.

Pradhan, B., & Ramesh, G. (2018). Comparative research performance in terms of publication output and its impact in terms of citations: A study of six Indian Institutes of Technology (IITs) during 2006–2015. *Journal of Scientometric Research*, 7(2), 94-102.

Leydesdorff, L., & Milojevic, S. (2013). Scientometrics (arXiv:1208.4566). Forthcoming in: Lynch, M. (Ed.), International Encyclopedia of Social and Behavioral Sciences, subsection 85030 (2015).

Zainab, T., & Wani, Z. A. (2016). An Altmetric Approach to Assess the Research Productivity: Use of Research Gate (Rg).

Kumar, S. (2016). Conformity of Lotka's Law to author productivity patterns in artificial neural network research (1994–2014): A bibliometric analysis. *Library Philosophy and Practice*, 1402.

Kumar, S. (2014). Measuring author productivity in human-computer interaction research using stratified random methods. *Journal of Informetrics*, 8(4), 853-865.

Naqvi, S., & Fatima, N. (2017). International business literature: A bibliometric study of research articles published in the Journal of Business (2012–2014). *Journal of Business Research*, 76, 187-195.

Suryawanshi, S. S. (2023). Best practices at BVDU's BVDU AKIMSS library: A case study. Current Publications.

Gupta, B. M. (2012). A scientometric analysis of Pakistan's S&T research output during 2001–2010. *DESIDOC Journal of Library & Information Technology*, 32(2), 179-185.

Swathy, S., & Gopikuttan, A. (2013). Faculty publications from three universities in Kerala: A scientometric study applying Lotka's Law. *Annals of Library and Information Studies*, 60(3), 189-197.

Mukherjee, B. (2013). A bibliometric study based on authorship patterns and citation analysis using Web of Science and Scopus data. *Scientometrics*, 95(2), 375-392.

Trimukhe,D S (2023) Reserch Productivity of Symbiosis International ( Deemed University), Pune A Scientometrics study, Madhya Pradesh Journal of Social Sciencs A biannually journal of M.P. Insitute of Social Sciences Reserch Ujjain ISSN-0973-855X- Vol-28 No.1.48-55

<https://www.researchgate.net/>

<https://www.ugc.gov.in/oldpdf/consolidated%20list%20of%20all%20universities.pdf>