



RESEARCH ARTICLE

SCIENTOMETRIC PORTRAIT OF PROF. GAJANAN R. NAIK

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ABSTRACT

An attempt has been made to highlight the research contribution of Prof. Gajanan R. Naik, Titular Award holder from Association of Commonwealth Universities, London, where in he published 114 articles in scientific journals. Collaborative authorship in scientific journals is found in the size of 07 single authored, 74 double authored, 20 three authored, 10 four authored and 01 five authored. Two and three authored paper publications constitute nearly 81% of the total authorship of his papers while single author papers are nearly 7% of total authorship. His h-index is 8 and received 383 citations for his scholarly research work. Most active researchers in the research group of Prof. Gajanan R. Naik were Joshi G.V., Virupakshi S, Gireesh Babu K, Manjunatha B. R., Prasad V and Vinod Kumar Patil.

Key words: Scientometric study, Gajanan R. Naik, Biotechnology, Bibliometric study, Biofuel, Molecular, Biochemical.

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INTRODUCTION

Scientometric study has been a new dimension of research in Library & Information Science of measuring qualitative and quantitative research output of a scientist. This will lead the younger scientists to emulate and thereby improve the research output of the individual, institute being served and help the country in moving towards better accreditation/ranking in the world map. Prof Gajanan R. Naik has made outstanding contributions in the field of Biotechnology Teaching, Research, curriculum development, laboratory development, sponsored projects, industrial consultancy, continuing education, Institutional/international linkages, technology transfer, administration/management, industry interaction, Alumni interaction and Professional/ Corporate/outreach activities. He has proven to be a good institutional builder as he effected visible turnaround as Pro-vice chancellor of Central University of Karnataka. Since 1976 he is actively engaged in research work. He has published nearly 114 research papers with high citation index in refereed journals and conferences, guided over 34 research scholars and PG students and working and completed 20 sponsored research and industrial consultancy projects dealing with Sugarcane, Biofuel, Biotechnology sponsored by Govt. agencies. In addition, he has 08+ Technical reports to his credit. He holds 08 Patenting/Gene Sequences on salt resistant gene sequence from sugarcane, gene sequence encoding thermos table alkaline

endo He has attended many research training programs in and around the world "Radioisotope safety course" at University of Calgary, Canada, attended (Govt. of India) sponsored training programme in "Plant cell and tissue culture and its application" held at M.S. University of Baroda, India. Prof. Gajanan R. Naik has visited many countries and presented research papers in International Conferences like University of Boston, USA, Spain, Tokyo, Canada, Brisbane and many more Prof. G. R. Naik has received many National and International awards and recognitions, notable being- "Titular Award" Association of Commonwealth Universities, London, "K.P. Deshmukh Memorial award" (twice) Deccan Sugar Technologists Association (INDIA), Pune, "Bharat Jyothi award" 2005 by India international friendship society, New Delhi, "Young Scientist Award 1994" Karnataka State Academy of Advancement of Science (KAAS), Co-author of the "Best paper award" selected at Hyderabad in the National Seminar of Indian Society of Plant Physiology and Biochemistry, 1998, "Karnataka State Government award" for Development of Science and Education in Hyderabad and Karnataka Area, in 2008. Apart from research he is having organizational and administrative experience. He is serving as Pro-Vice Chancellor of Central University of Karnataka, He has also serve as Executive Council and Court member of Central University of Karnataka, Acting Vice Chancellor of Gulbarga University Gulbarga (2014-2015), Registrar, Karnataka State Women's University, Bijapur. (2011-2013), Dean, Faculty of Science and Technology, Gulbarga University, Gulbarga, August 2013 – August 2015, Coordinator and Chairman, Department of Biotechnology, Gulbarga University, Gulbarga from 1994 to 2004., Syndicate Member, Gulbarga University,

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Gulbarga 2010-11, Syndicate Member, Karnataka State women's University, Bijapur, 2011-2013 (Member Secretary). Several studies reported in this area of research are , Susanta and Sen B.K on "A Bibliometric study of Prof. B N Koley", Angadi Mallikarjun, Koganurmam M.M. and Kaddemani B.S. on "Scientometric Portrait of Nobel Laureate Lenald H. Hartwell", Satish S Munnolli and V L Kalyane on "Scientometric Portrait of Ram Gopal Rastogi", Koley Ahmed Manjur, Anjum Ahmed Khan and Ahmed Munir, on "Scientometric Portrait of Datta-UR- Rahman", V L Kalyane and B K Sen on "Research Productivity of Tibor Braun", Kalyane V L and Kalyane S V on "Scientometric Portrait of Vinodini Reddy", Kademani B S, Kalyane V L and Balakrishnan M R on "Scientometric Portrait of P K Iyengar", Kamble P.S on "Scientometric Portrait of Jayant Vishnu Narlikar", Sinha S.C. and Dhiman A K on "Bibliometric study on R C Sinha". This is a portray of Biotechnologist, Experienced Administrator of Indian origin with h-index of 8

Objectives of the Study

The main objective of the study is to find out the different forms of scholarly research productivity.

- To find out year-wise growth of publications
- To identify citation productivity.
- To identify authorship pattern in his research communications
- To find out core collaborators of Prof. Gajanan R. Naik in his research career and
- To identify core communication channels preferred by Prof. Gajanan R. Naik.

METHODOLOGY

Scientific publications are the best source to measure the contributions of an individual scientist and therefore the bibliographic data of research publications of Prof. Gajanan R. Naik for the study were taken from requesting through email and some publications details have taken from Scopus and Web of Science database. The data is then transferred to spread sheet to refine and elaborate the desired elements of each record for easy segregation and identification. The present study is limited to 114 publications. Normal count procedure was followed.

RESULTS AND DISCUSSION

Forms of Scholarly Research Productivity

Prof. Gajanan. R. Naik has published 153 research papers in his professional career (with high citation index) types of publications include 114 journal articles (75 percent), 08 patents on self-excited induction generator and control (5 percent), 3 books (2 percent), 20 Research Projects (13 percent), and 8 reports (5 percent) (Table 1 & Figure 1)

Table 1. Forms of Scholarly Research Productivity

Forms	No. of Papers	Percentage
Scientific Journal Article	114	75
Patenting/ Gene sequences	08	05
Books	03	02
Research Projects	20	13
Reports	08	05
Total	153	100%
H Index: 8	Total Citations: 83	
(Source: Web of Science)	(Source: Web of Science)	

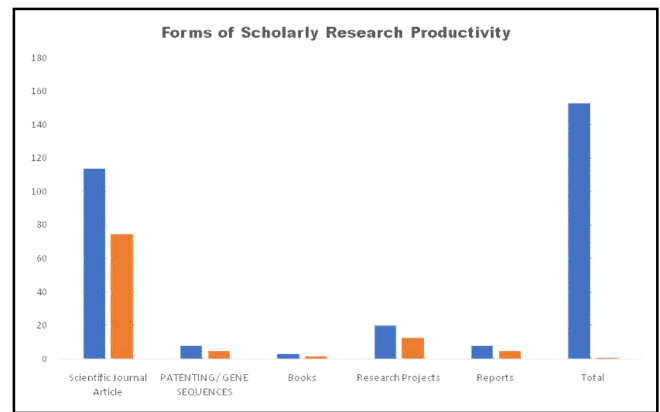


Figure 1. Publications productivity of Prof. G.R. Naik

Growth of Scientific Articles

Prof. Gajanan R. Naik's most productive years for publishing scientific articles in refereed journals were 2011-2015, 2001-2005 and 1996-2000 in which he had published 64 papers (56 percent) (Figure 2). During these years he had published minimum 10 papers in each year in journals. He had published only 4 papers in 2016-2017.

Table 2. Growth of Scientific Articles

Year	No. of Journal Articles	Percentage
1975-1980	11	10
1981-1985	10	09
1986-1990	09	08
1991-1995	07	06
1996-2000	15	13
2001-2005	19	16
2006-2010	09	08
2011-2015	30	26
2016-2017	04	04
Total	114	100%

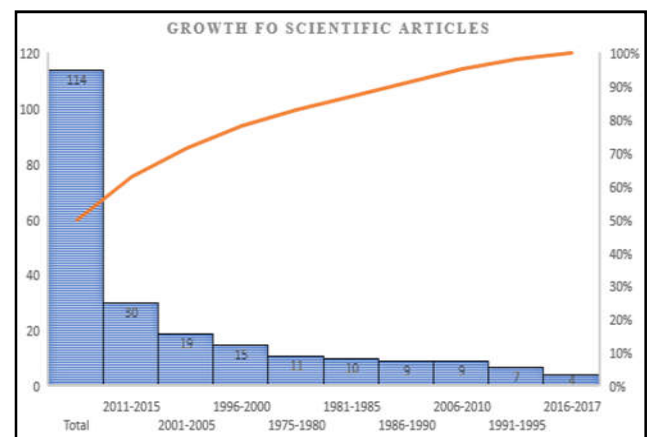


Figure 2. Publications productivity of Prof. G.R. Naik in Chronological order

Citation Productivity

As per Web of Science database, Prof. Gajanan R. Naik has received a total citation of 383 for his scholarly works during 2000 to 2018 with h-index of 8 (Figure: 3)

Authorship Pattern of Journal Articles: Table 4 depicts the authorship pattern of Prof. Gajanan R Naik in publishing journal articles.

Table 3. Citation Productivity

Sl. No.	Publication Year	Total Citations
1	2000	0
2	2001	0
3	2002	4
4	2003	7
5	2004	16
6	2005	18
7	2006	24
8	2007	18
9	2008	28
10	2009	25
11	2010	25
12	2011	28
13	2012	46
14	2013	33
15	2014	30
16	2015	28
17	2016	28
18	2017	20
19	2018	05
Total Citations		383
Average Citation Per year		22.59
h-index		8

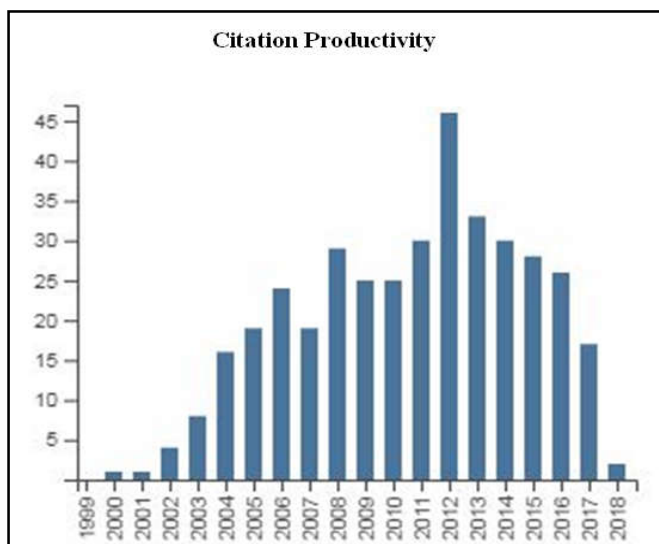


Figure 3.

He has published total 114 articles in which he published 7 articles as individual, 74 articles with 1 collaborator, 20 articles with 2 collaborators, 10 articles with 3 collaborators, 1 articles with 4 collaborators and 2 articles with more than five collaborators. Thus, the collaborated research is found to be dominant with two authors followed by three authors (Figure 4)

Top six (6) collaborators in Journal Article Publications

Table 6 Shows most prolific authors associated with Prof. Gajanan R. Naik in journal article publications.

Table 4. Authors Productivity in research team of Prof. G.R. Naik

Authorship	Number of Articles	Percentage
Single Author	07	07
Double Author	74	64
Three Author	20	17
Four Author	10	09
Five Author	01	01
More than Five Authors	02	02
Total	114	100%

Authorship Pattern of Journal Article

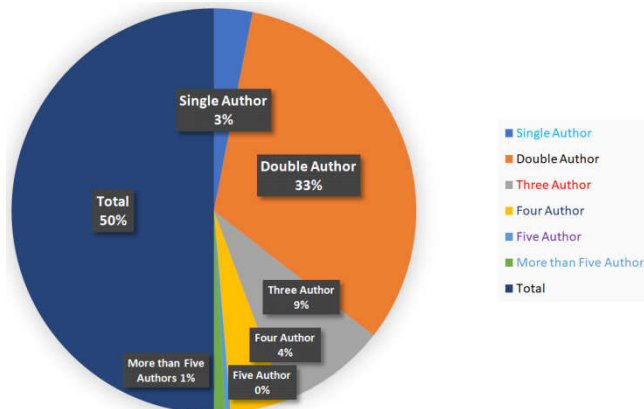


Figure 4. Author productivity observed in the publications of Prof. G.R. Naik

The most active authors were Joshi G .V. who topped the list with 12 papers followed by Virupakshi S with 10 papers, Gireesh Babu K with 8 papers, Manjunatha B. R. with 08 papers, Prasad V. with 5 papers and Vinod Kumar Patil with 5 papers. (Figure: 5)

Table 5. Authorship Status among the core authors of Prof. G.R. Naik

Author	II	III	IV	V	Total
1 Joshi G .V.	09	02	01	-	12
2 Virupakshi S	03	03	03	1	10
3 Gireesh Babu K	05	01	03	-	08
4 Manjunatha B. R.	02	03	02	01	08
5 Prasad V.	05	-	-	-	05
6 Vinod Kumar Patil	03	-	01	01	05
Total					48

TOP 6 COLLABORATORS IN JOURNAL ARTICLE PUBLICATIONS

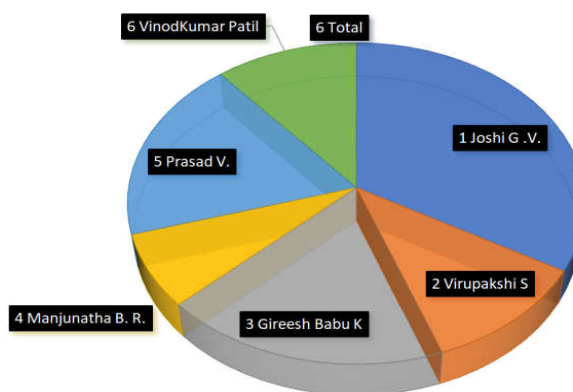


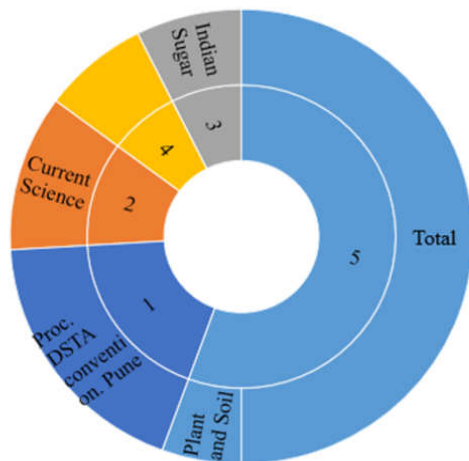
Figure 5. Top 6 collaborators in Journal article publications

Top five (5) Channels Preferred for Publishing Journal Articles

Prof. Gajanan. R. Naik used 117 different scientific channels that include 114 journals (75 percent) and 03 in the form of books (2 percent). Table 8 shows top 05 channels preferred by Prof. Gajanan R Naik. His top five preferred journals for publishing research papers were Proc. DSTA convention. Pune tops the rank list with 10 papers followed by Current Science 06 papers, Indian Sugar 4 papers, Maharashtra Sugar 4 papers and Plant and Soil 3 papers.

Table 6. Ranking of the Channel of Communications used by Prof. G.R. Naik

SL. No.	Title	No. of Papers
1	Proc. DSTA convention. Pune	10
2	Current Science	6
3	Indian Sugar	4
4	Maharashtra Sugar	4
5	Plant and Soil	3
	Total	27

Top Five (5) Channels Preferred for Publishing Journal Articles**Figure 6. Top five (5) channels preferred for publishing journal articles**

Conclusion

Based on the results it can be conferred that Prof. Gajanan R Naik is one of the highly cited Biotechnologist and well experienced administrator serve as a motivator for younger researchers.

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