



University of Pune

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Research Papers: A Compendium

Publications of Science Faculty

1999-2008



University of Pune

Research Papers: A Compendium

Publications of Science Faculty
1999-2008

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Foreword



Teaching, research and extension are the three main functions assigned to any University. While teaching is a prime function and needs to be performed at the highest level of competence, that is possible only when the faculty is engaged in research activity. Such engagement helps teachers to remain at the cutting edge with the advances in their own subjects. It also sustains the interest in the academic activities and provides opportunities to the students to get acquainted with frontline areas. It widens the scope of learning and exposes students to the latest developments in research methodology and encourages them to take up careers in the research field. Importantly, it also helps the University to stand out at the global level. In the era of globalization, precise documentation, critical analysis and appropriate evaluation is essential to prove one's standing at global level.

Over last sixty years, University of Pune has had an excellent track record in research. In fact, Department of Science and Technology (DST) of the Government of India has identified Pune University as an institution which has contributed significantly to research over the last decade. Surprisingly however, the University of Pune has not made any effort so far to develop a database of its contributions in research over the last 60 years. This endeavour has finally been undertaken.

I am very happy that the first Volume of this Compendium is being published on 10th February, 2009 - the day of beginning of Diamond Jubilee celebrations. As the first step, it is planned to compile the data of science departments consisting of research papers published over the period from 1999-2008. This is a stupendous task and would provide a graphical representation of the research papers by various departments. This will serve as an indicator to evaluate the progress and trends in research activity. It would also help to suggest necessary measures to be taken to sustain and enhance the research contribution of the University. This first phase is collection of information in a formatted manner. Using this compilation, preliminary analysis is being undertaken. In order to decide the standard and the quality of research however, further analysis would be required.

I would like to place on record my sincere appreciation of the efforts made by Dr. Pandit Vidyasagar, Dr. Mrs. Shubhada Nagarkar, Asha Umarani, Dr. K.C. Mohite and Nirali Varma and her team for preparing the first volume in a short span of time. I am sure this would be yet another landmark in the history of the University of Pune.

10/2/2009

Dr. Narendra Jadhav
Vice-Chancellor

Reflections

Dr. Pandit Vidyasagar,
Director, BCUD

The present compendium presents the data of research publications and articles published by the faculty members and researchers of science departments on the University campus. This data spreads over a decade from the year 1999-2008. The data obtained from the eighteen departments has been formatted whereas data from remaining departments will be presented later. The presentation sequence is as follows. The data from all Science departments is presented in an alphabetical manner. For each department a histogram showing the number of publications in each year is given. This is followed by the publications of each faculty member in a chronological order. Publications include research papers. The analysis provided is of eighteen departments.

The overall observation shows that the Physics and Chemistry departments are way ahead of other departments with total number of publications 464 and 409 respectively. This is because of long standing research tradition and also the number of faculty members involved in active research. Following these are five departments i.e. Statistics (118), Zoology (112), Botany (101), Geology (86) and Electronic Science (89), which have publications in the range of 89 to 118. It is worth noting that Electronic Science department is a non-grant department with about five faculty members only. Department of Mathematics comes next in order with 78 publications. It needs a special mention because it's a subject where publications are hard to come. Geography and Microbiology are in the range of sixty-to- seventy. There is a group of two departments with publications within the range of thirty to forty publications, which include Environmental Science (40), and Instrumentation Science (31). The department of Environmental Science has almost no permanent faculty whereas Instrumentation Department has about three faculty members. Atmospheric Space Sciences (22) and Bioinformatics (18), have publications in the range of fifteen to twenty five.

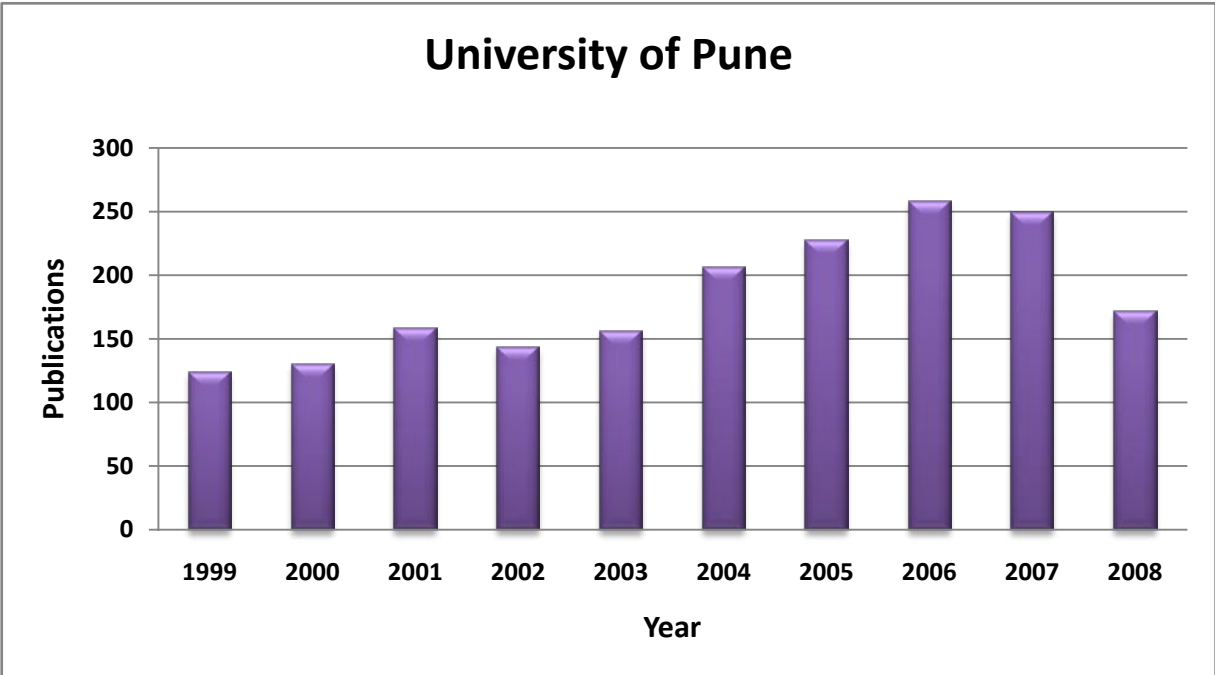
Thus the present compendium, though not complete gives a reasonably good picture of the research activity in terms of research papers. The following are general observations based on the data obtained so far. It is essential to state that these are preliminary observations are subject to corrections, after validation of the data by an individual staff member and the department.

1. Physics and Chemistry are way ahead of the other departments in the research contribution.
2. There is overall increasing trend seen in the number of research publications.
3. The database would be basis for further consolidation and Updates.
4. Further analysis is essential to decide the quality of publications.

5. Other parameters such as books, articles, Ph.D. students guided, new courses started and taught contribution to extension activity and recognitions need to be part of database.
6. This compendium will act as a performance indicator and would be useful to suggest the corrective measures.
7. Consolidation Updates should be made every year.
8. The database should be made interactive.

I wish to express my sincere thanks towards Dr. Narendra Jadhav, Vice-Chancellor, and University of Pune for providing the opportunity to compose the compendium. I wish to acknowledge the help rendered by the Registrar, Dr. Manik Jadhav, and Finance and Account Officer Shri. Sanjay Gavai. Dr. Shubhada Nagarkar and Asha Umarani from the Department of Library and Information Science have put tremendous efforts within a short span of time in compilation of the data. Without their active involvement the work would have not been complete. Dr. K.C. Mohite has provided the help in organizing various tasks. I thank also Nirali Varma, and her team especially Mr. Gajanan Amlapure, for their tremendous support.

I hope the compendium would mark a new era in the history of University of Pune.

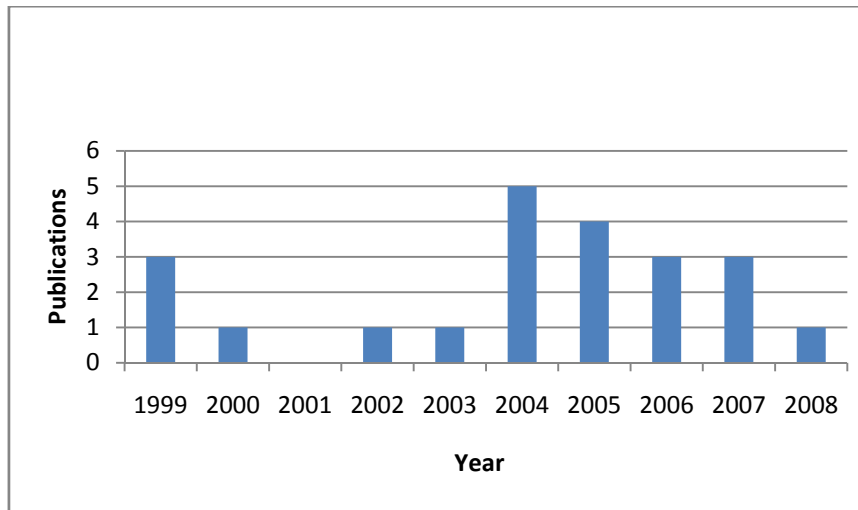


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Atmospheric & Space Sciences

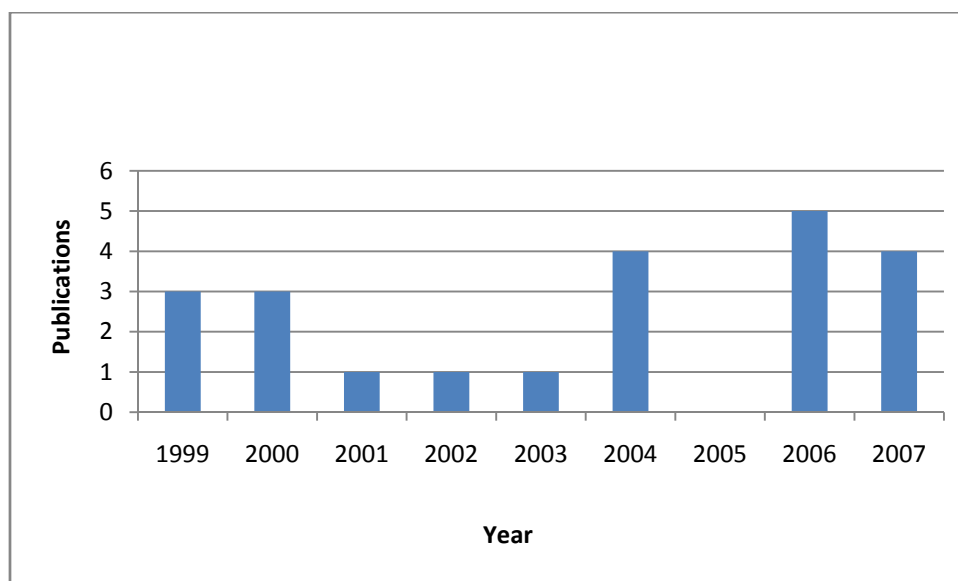


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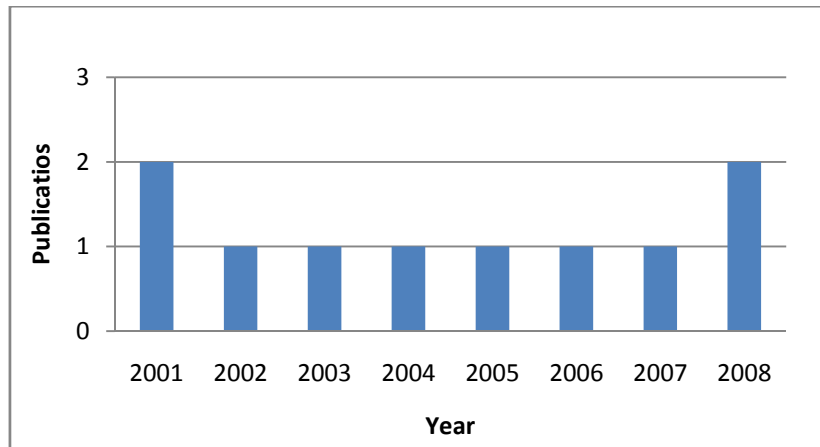
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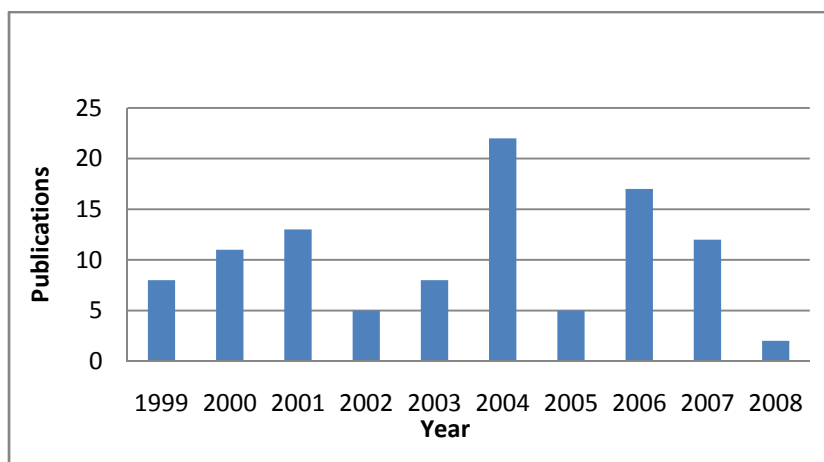
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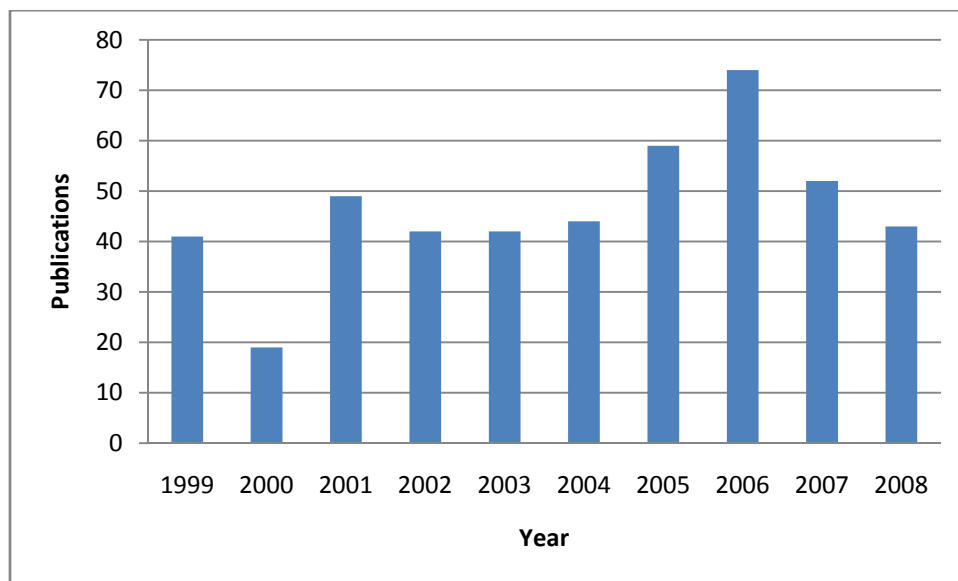
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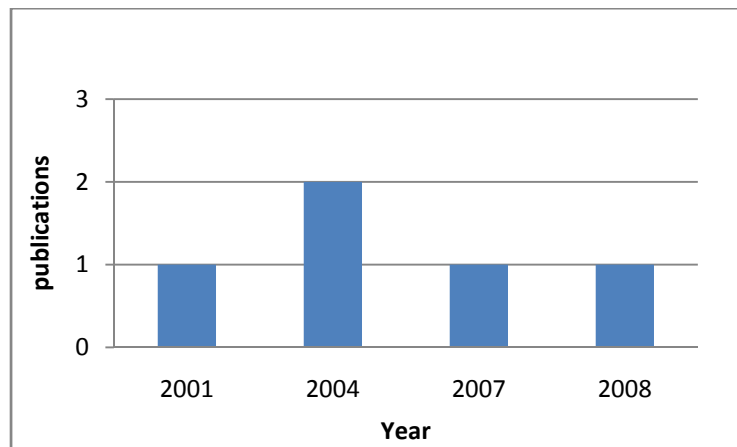
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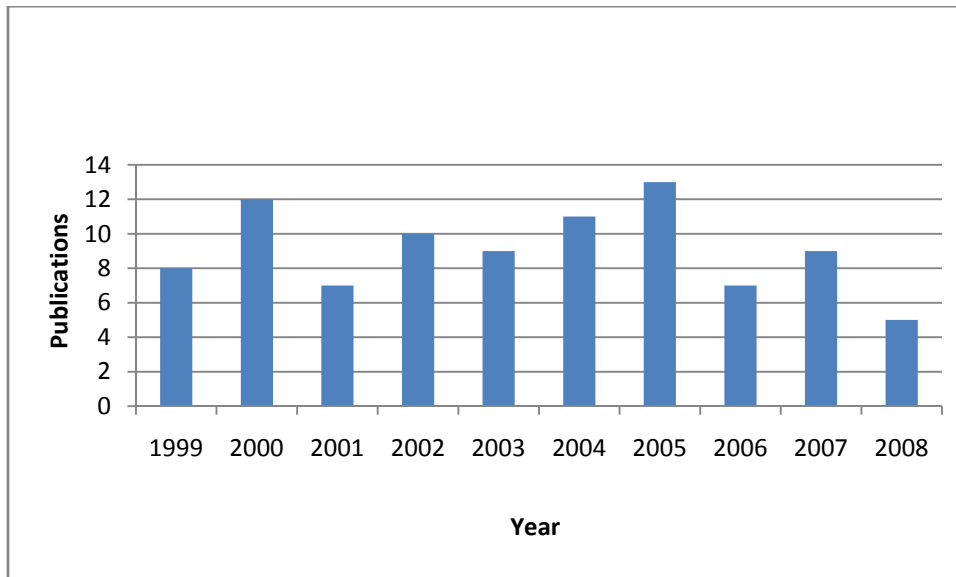
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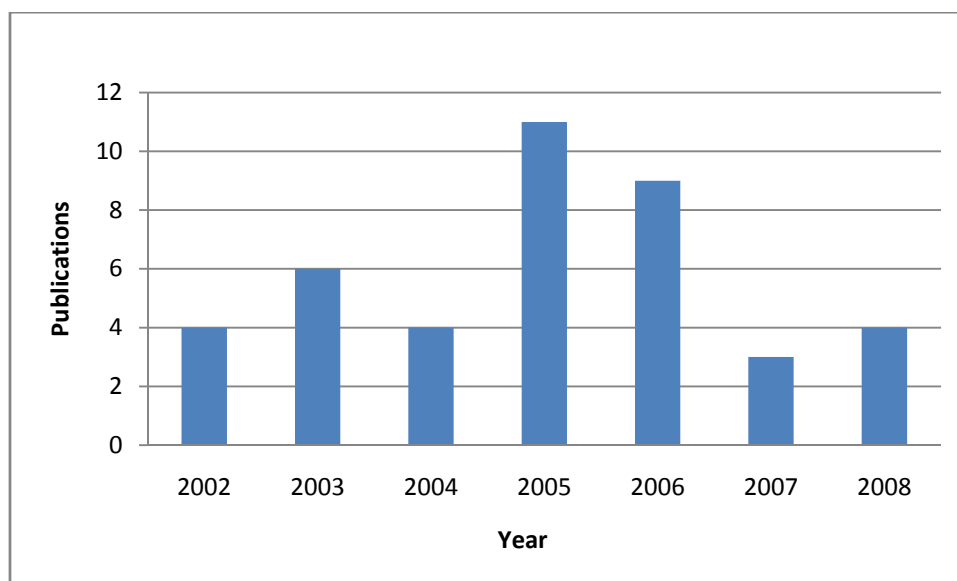
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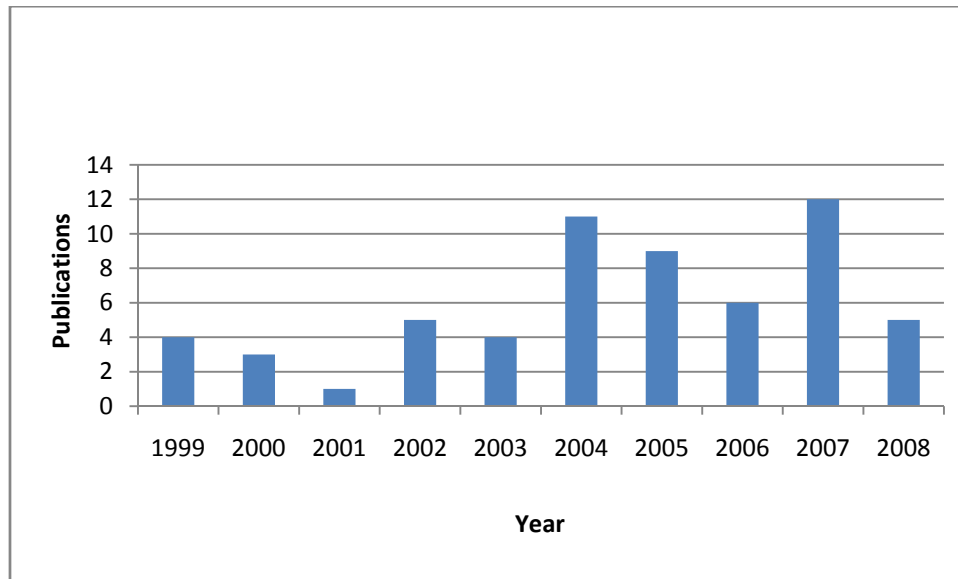
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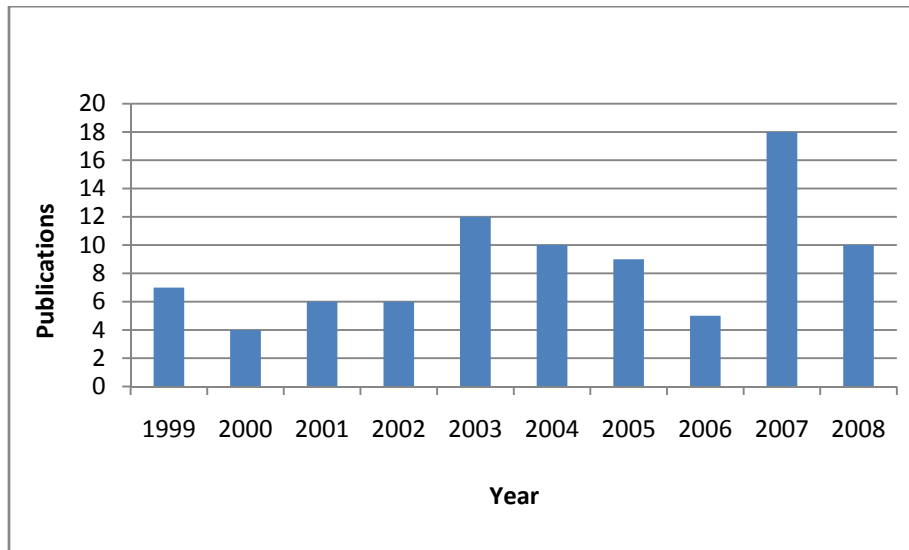
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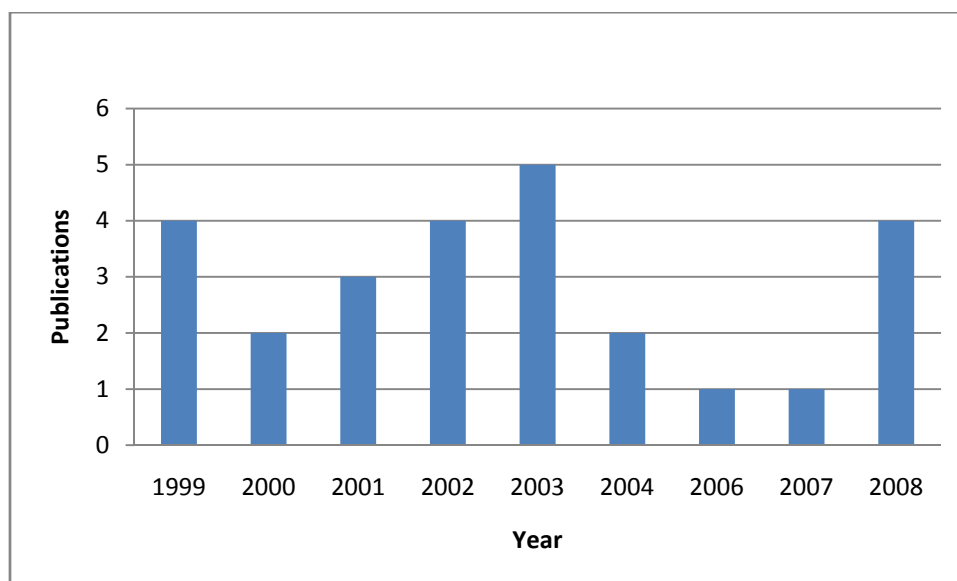
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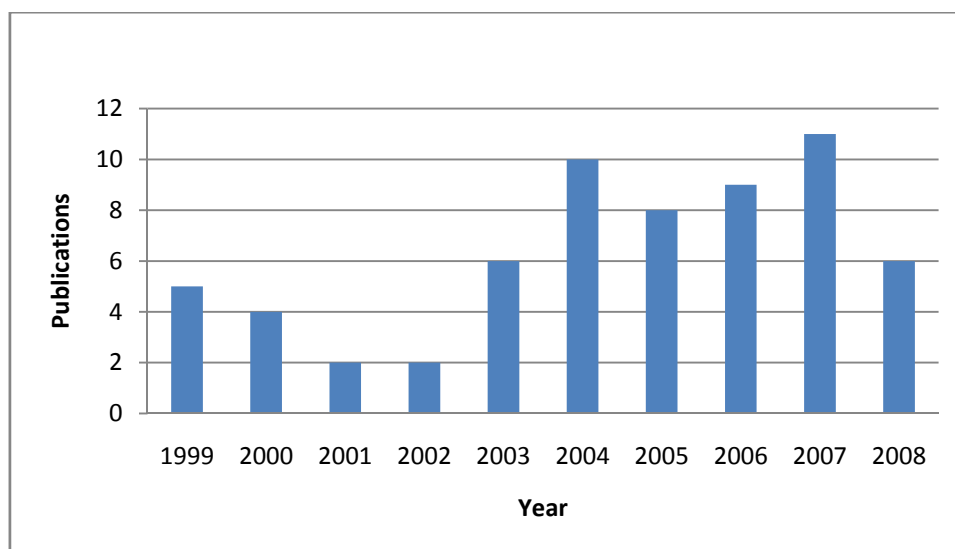


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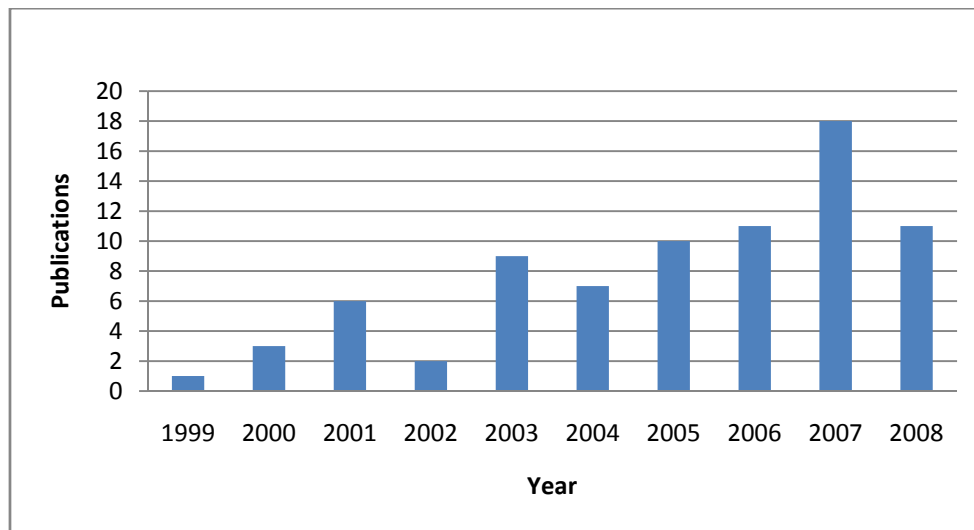
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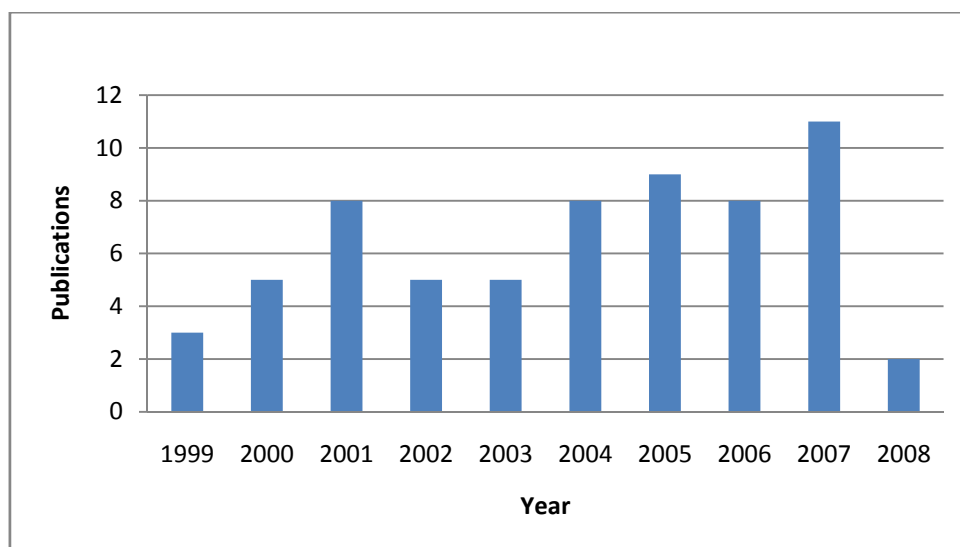
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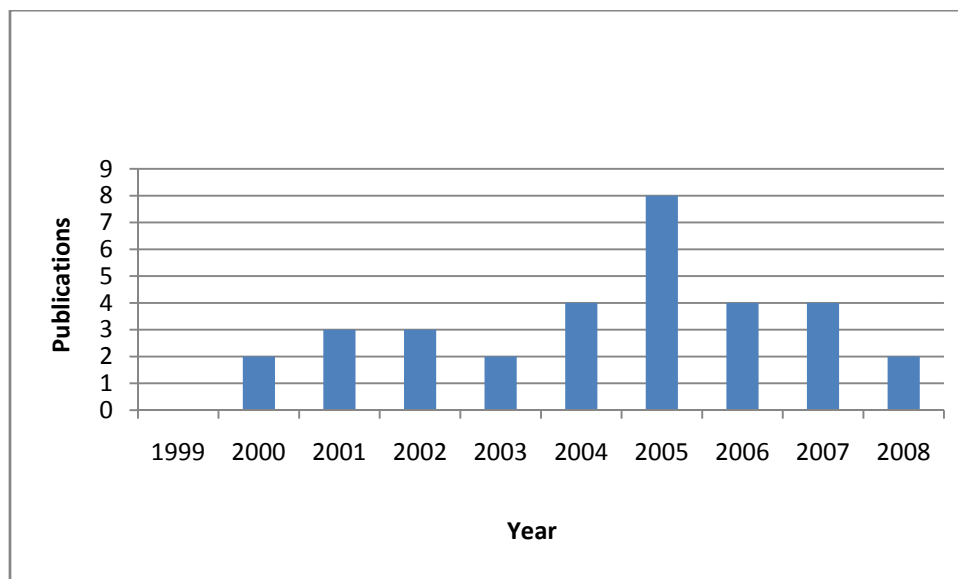
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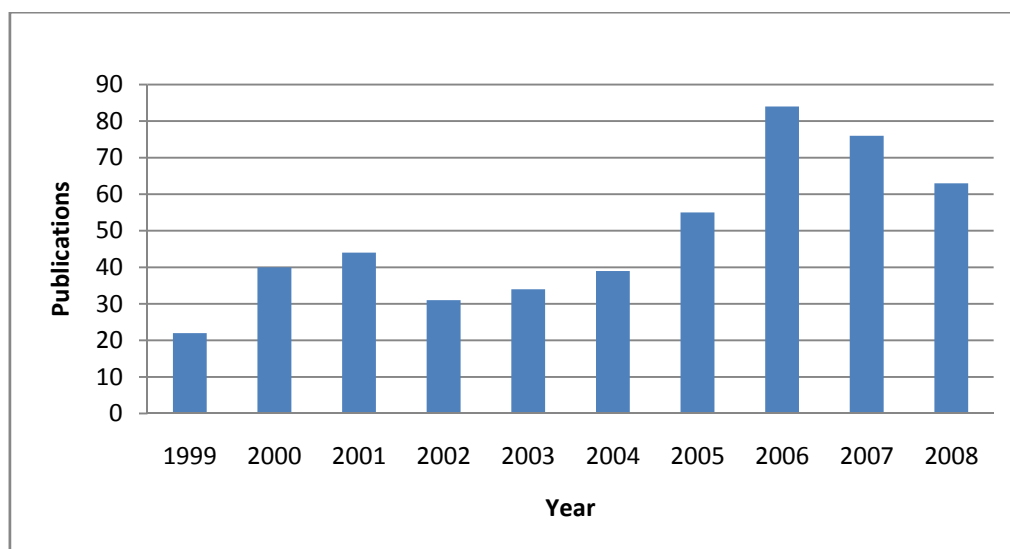


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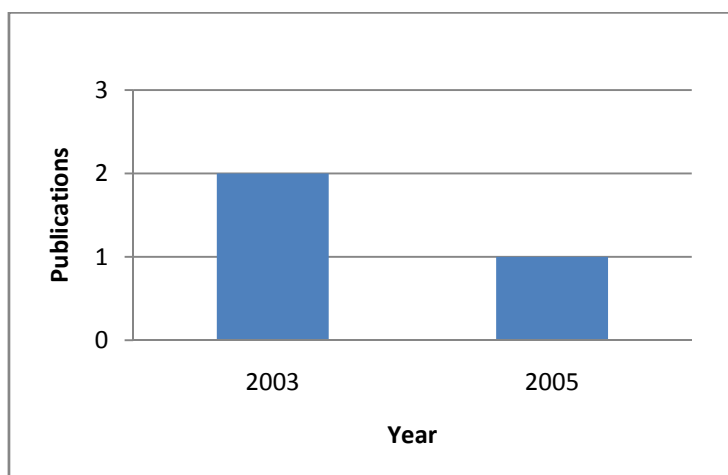
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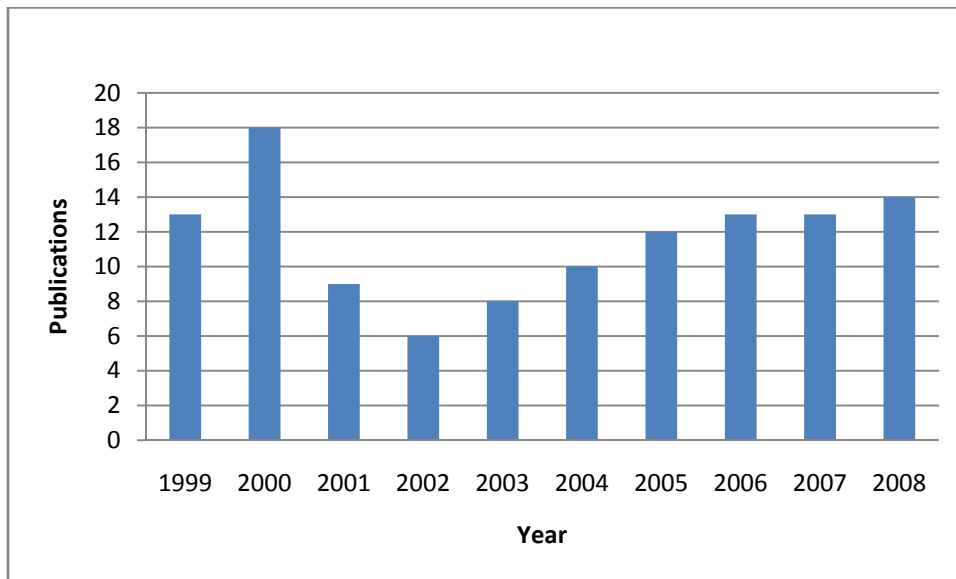
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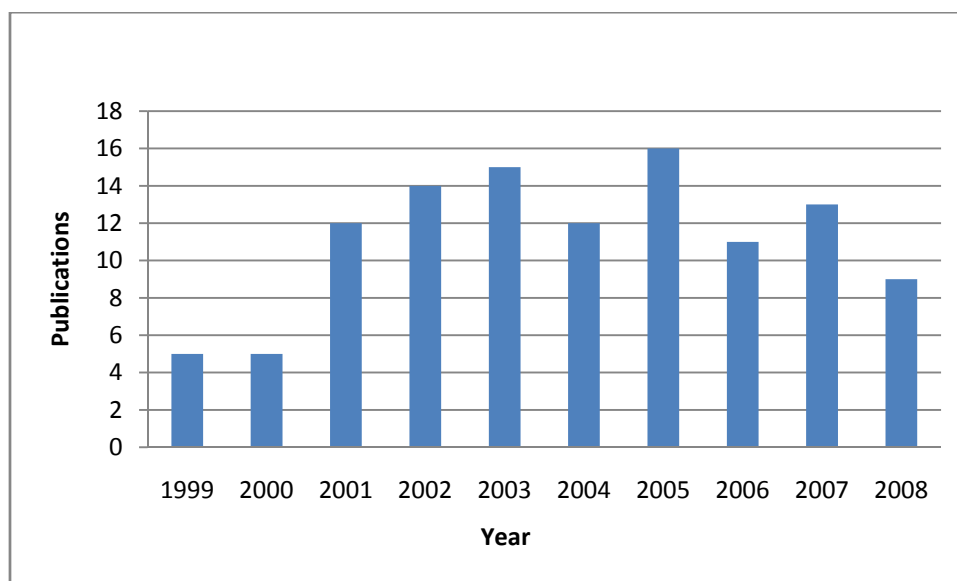
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