

Big Data: A Scientometric Analysis Based on Indian Publications

A. Alagu¹, S. Thanuskodi¹ and P. Dhanya²

¹*Department of Library and Information Science, Alagappa University, Tamilnadu, India*

²*Ravi's Institute of Medical Sciences, Kollam, Kerala, India*

The present research was carried out with the purpose of evaluating the growth and characteristics of big data research output by India. This study has been assumed with the purpose of examining the literature published on 'Big data' in Web of Science (WOS) database by Indian scientists. WOS covers nearly 20000 + titles from over 3300 publishers, of which supported 256 disciplines. The 'Big Data' was used to search the article indexed in Web of Science for retrieving the results. Total of 714 documents were indexed in web of science from India. The data were exported to MS-Excel where the tabulation and simple statistical methods was applied. All these articles published in 477 journals during the period 2008-2017. From these Journal of Pharmaceutical Biological and Chemical Sciences Research were found to be most productive and preferred by Indian scientists for their scientific communication. A significant note of the study is that the majority of the articles are contributed by multiple authors. In this study single author has contributed 67 (9.38) papers in this study. Two and three authors contributed papers occupying first and second in the order, it is calculated 221 (30.95) and 149 (20.87) respectively. Four authors contributing to the research occupies the third rank with 99 (13.87) and single author occupy the fourth rank at 67 (9.38). Five authors and ten+ authors placed fifth and sixth ranks with 63 (8.82), 44 (6.16) respectively. Six authors and seven authors contribute papers got seventh and eighth rank with 29 (4.06), 15 (2.10). Remaining eight authors 12 (1.68), nine authors 9 (1.26) and ten and above authors 6(0.84) contribute papers placed ninth, tenth and eleventh rank respectively. The study also analyzed the year wise distribution, document wise distribution, author wise distribution, and top ranked Institute in the field.

Keywords: Scientometrics, Big data analytics, Web of science, Authorship pattern, Degree of collaboration