GLOBAL RESEARCH OUTPUT AND GROWTH RATE STUDY IN THE FIELD OF PLASTICS TECHNOLOGY

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ABSTRACT

The ‘Bibliometrics’ and ‘Scientometrics’ are set of methods used for measuring the production and dissemination of the scientific knowledge’s. This study explore that the research productivity in the field of Plastics Technology and the data was downloaded from the SCOPUS database for the period from 2010-2014. Here we examined the Year wise, Author wise, and Document wise Distribution of records during the study period of 5 years. It is evident from the table that the highest 1950 (21.84%) articles published in the year of 2014. In this study plastics technology research in journal articles with 4276 records, while the conference paper comprises with 3573 records, Review comprises with 411 records, Conference Review comprises with 217 records, Book chapter comprises with 147 records, Short Survey comprises with 96 records, Book comprises with 73 records, Editorial comprises with 34 records, Article in Press comprises with 33 records, Note comprises with 32 records found. The Growth rate is 0.73 in 2011 and which decreased up to 0.24 in 2014. The mean relative Growth rate for the periods of 2010 to 2014 the relative growth rate of 0.332. This study period resulted that the mean Doubling time for total output 1.58. Author “Hua, L.” published the highest number of articles for the study period. The highest contributed countries were taken for analysis. The China was contributed 2037 (22.81 %) research publications of the among 8928 publications and occupied the first position. United States contributed 1758 (19.69 %) research publications and occupied second position among the 8928 publications. Germany occupied the third position this organization published 833 (9.33 %) research publications of the among 8928 publications respectively India is six rank of contributing research publication in the field of plastics Technology.

Keywords: Bibliometrics, Scientometrics, Plastics Technology, Relative Growth Rate, Doubling Time