

A scientometric Model for the Assessment of Scientific Research Performance of Indian Institute of Science Education and Research, Bhopal, India

Ramesh Yernagula
Indian Council of social science Research
India
{ryernagula@gmail.com}
Sivakrishna Sivakoti
MR College of Pharmacy
India
{sivakrishna.sivakoti@gmail.com}



ABSTRACT: A scientometric analysis is presently used for evaluating the qualitative and quantitative scientific research output of publications. This study is motivated particularly after looking into the Nature Index's latest rankings where Indian Institute of Science Education and Research (IISER), Bhopal has secured 10th spot among the institutions in the country. With this, the IISER Bhopal joins the league of top institutions like IISc Bangalore, IIT Kanpur, IIT Mumbai, IIT Madras, IIT Guwahati, IIT Kharagpur, IISER Pune and IISER Kolkata. The publication data of the Institute has been drawn from Scopus database for the period 2010-2019. A total of 1677 unique records over the year 2010–2019 have been downloaded and analyzed under various categories considered for this study. IISER Bhopal is placed 4th Rank among IISER's institutions followed by IISER Pune, IISER Kolkata, IISER Mohali in the country. The highest numbers of papers are published in the year, respectively 2019, 2018, 2017 2016.2015.2014, 2013, 2012, 2011, 2010. It shows significant growth with continuous improvement. The study found that 25836 citations have cited for 1677 publications and it shows 15.40 citations per paper. The study also reveals geographical collaboration of the scientific research with 88 other countries, among top ten countries are United States with 248 articles, Germany with 162 articles, United Kingdom with 156 papers France with 137 articles, South Korea with 130 papers, China with 129 articles, Switzerland with 129 articles, Italy with 127 articles, Turkey with 121 articles, Russian Federation with 120 articles. Besides, this study also identified that document wise distribution, Journal wise and it's contributions among IISERs institution in India is also distinguished.

Keywords: Scientometrics, Citations, IISER, SCOPUS