

Chapter 6

The International Journal of Climatology: A Scientometric Analysis

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ABSTRACT

The paper analyses the documents published in the prominent journal "The International Journal of Climatology" from 2011 to 2020 using scientometric parameters. Data was retrieved from Scopus data. This analysis covers mainly the kinds of publications, authorship and collaboration patterns, bibliographic coupling, subject wise distribution of articles, citation analysis, forms, year wise distribution of cited journals etc. The analysis indicates 98.36% of publications are articles. Climate Change, Climatology, Rain, Climate models are mostly used keywords. Majority of publications are from China followed by the USA, UK and India. And 47.28% publications are published as open access. Our study will give a broad range of perceptions for upcoming researchers by tracking the trends.

INTRODUCTION

The study of the atmosphere and weather patterns through time is known as climatology. This field of science deals with observing and evaluating weather patterns all around the world, as well as the atmospheric factors that cause them.

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Climatology is primarily concerned with the natural and man-made variables that influence long-term weather patterns. The International Journal of Climatology is a peer-reviewed journal publishing research in the field of climatology. Established in 1981, the journal is published 15 times per year by Wiley-Blackwell on behalf of the Royal Meteorological Society and impact factor is 4.069. Through the publication of research papers, short communications, large reviews of progress, and reviews of new books and reports in the field of climate science, the International Journal of Climatology aspires to span the well-established but constantly increasing field of climatology. Its primary goal is to promote and disseminate climatology research from a variety of perspectives, including atmospheric, oceanic, and planetary science. According to Google Scholar metrics in 2021, The International Journal of Climatology is ranked tenth in the atmospheric sciences category with an h5-index of 62 and an h5-median of 81

Review of Literature

Munazza Jabeen, Liu Yun, Muhammad Rafiq, Misbah Jabeen & Muhammad Azam Tahir (2015) highlighted the research productivity and scholarly communication of library and information science professionals during 2003–2012 by using Web of Science database. Data was interpreted by using two open-source software Vantage point (powerful text-mining tool for discovering meaningful results from raw data) and CiteSpace II to visualize the library and information science growth and trends. Underlying results indicated that the mainstream of authors (12,847, 69.9%) published their article as a single author from 2003–2009, this trend has declined and collaborative number of publications trend has inclined during the last 3 years. The University of Illinois at Urbana-Champaign produced 95 (0.52%) of the total publications and stands at the leading position.

Davarpanah, M.R. Aslekia carried out a quantitative study of productivity, characteristics and other aspects of overall publication in the field of library and information science. A sum of 894 publications published in SSCI during the times of 2000 – 2004 were analysed. 1361 authors had contributed publications during the five-year period and 89.93% of them wrote one paper. 1.52 is the average number of authors per paper. 70% of the authors are from the USA and UK with an average of 1.6 citations. Also self-citation tendency found in 48% of authors.

Wai Sin Tiew presented key bibliometric components of articles and book reviews published in the Journal of the Malaysian Branch of the Royal Asiatic Society (JMBRAS) between 1987-1996. From the total of 4045 citations, 1525 (37.30%) were from books/monographs and single authored contributions are 95%. Also, 60% contributions are from foreign countries that indicates JMBRAS visibility and quality of this journal.

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