

TOP 100 MOST CITED PAPERS OF THE JOURNAL “REMOTE SENSING OF ENVIRONMENT”: A SCIENTOMETRIC ANALYSIS

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Abstract

The study of the most cited paper helps to understand the quality and popularity of the article(s) or journal in a specific area of knowledge. The highly cited and influential papers enhance the credibility of the author(s), affiliated institution, and the country as well as the profession. *Remote Sensing of Environment* is an interdisciplinary journal indexed in both Web of Science (WoS) of Clarivate Analytics and Scopus of Elsevier. The journal has 2021 CiteScore of 20.7 in Scopus and 13.85 of 2021 Impact Factor (IF) in Journal Citation Report (JCR) 2022 of WoS. The objective of the present study is to evaluate the prominent characteristics of the most cited papers of the journal *Remote Sensing of Environment* in Elsevier’s Scopus database. Elsevier’s Scopus database is the source data for the present study. Microsoft Excel and VOSviewer software were applied for data analysis and visualization. The most cited paper, with 6478 citations, in Scopus was “Red and photographic infrared linear combinations for monitoring vegetation” authored by CJ Tucker, USA in 1979. Curtis E. Woodcock of Earth & Environment Science Department of Boston University is the most prolific author with the most number of top cited papers (8 papers). According to the number of publications, institutions in the USA have published the most (75 papers). Remote sensing of vegetation is the most important research being reported in the journal. MODIS, Thematic Mapper are the most useful sensors, as per the most frequent keywords. ‘*Agricultural and Forest Meteorology*’ and ‘*Agronomy*’ journals are among the most cited non-remote sensing journals. China is the only non-western nation in the most prolific nations, indicating that countries of the Indian sub-continent.

Keywords: *Scientometrics, Citation Impact, Most Cited Papers, Remote Sensing Journal, Scopus, Remote Sensing of Environment*