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Comparative Analysis between Solar Energy and Wave Energy: Bibliometric Study

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Abstract : This article presents an analysis of trends and the state of research into the main renewable energy sources based on information obtained from the SCIE / SSCI database for the period 2007-2017. This study is aimed at comparing solar and wave energy sources with the aim of comparing their global economic, research and industrial impacts. The results generated from the bibliometric techniques used made it possible to obtain the performance of the production of publications, as well as the influence of different institutions and countries on this subject. Of the 8,172 publications in this bibliometric study, 62.3% refer to solar energy and 37.7% to wave energy, where the United States has been the most influential country in research in this area, presenting the largest volume of publications in both energy sources. The results of this paper provide researchers with an overview of the scope of renewable energy research around the world. In addition, for mastering the subject and its application, relevant data are presented on the countries producing these renewable energies and their relationship with the production of publications, determining the influence that research has on the technological and economic growth of a country.

Keywords : Renewable energies, solar energy, wave energy, bibliometrics.

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