

Mapping of Research Publications on Food Security: A Scientometric Analysis

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This study deals with the Scientometric analysis of the publications on "Food Security" studies. The objective of the study was to perform a bibliometric analysis of all food security- related publications in the Science Citation Index (SCI) using R tool. The records were collected from Web of Science Database for the period of 2000-2018 March. Data were analyzed using R studio R Bibliometrix package. A total of 2000 articles were identified from various sources, such as journals, books and etc. This study reveals that, most of the research outputs were published in journals; as such 88.47 % (1769). Annual scientific production was rapidly increased from 2014 (59) to 2015 (207) and it was reached 867 numbers in 2017. Collaboration index for Food Security research was 3.8. The most productive country was United States of America which published 236 Single Country Publications (SCP) and 60 Multiple Country Publications, followed by India with 216 SCP and 15 MCP respectively. Most productive author based on number of publication is Kumar S (13 publications) and based on dominance factor is Kim K (5 publications) on food security. Based on the author country relationship USA, 370 authors, India 245, China 214, Germany 98 and England 91 authors were published their publications on Food security. Author and keyword relationship shows that, Agriculture (231), Technology (58) Precision Agriculture (49) and Sustainability (47) were highly used keywords for their publications. This study analyze three types of bibliographic coupling such as, coupling among authors, keyword co-occurrence and co-citation network. Coupling network visualize the strength of relationship among the authors, and keyword.

Keyword: Scientometric, Food security, Bibliometric, Publications, Mapping