

Analysis of Trends in Environmental Health Research Using Topic Modeling

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Abstract : In response to the continuing increase of demands for living environment safety, the Korean government has established and implemented various environmental health policies and set a high priority to the related R&D. However, the level of related technologies such as environmental risk assessment are still relatively low, and there is a need for detailed investment strategies in the field of environmental health research. As scientific research papers can give valuable implications on the development of a certain field, this study analyzed the global research trends in the field of environmental health over the past 10 years (2005~2015). Research topics were extracted from abstracts of the collected SCI papers using topic modeling to study the changes in research trends and discover emerging technologies. The method of topic modeling can improve the traditional bibliometric approach and provide a more comprehensive review of the global research development. The results of this study are expected to help provide insights for effective policy making and R&D investment direction.

Keywords : environmental health, paper analysis, research trends, topic modeling

Conference Title : ICEBESE 2016 : International Conference on Environmental, Biological, Ecological Sciences and Engineering

Conference Location : Kyoto, Japan

Conference Dates : November 10-11, 2016