

**JOURNALS COVERAGE OF THE SOUTH EAST ASIAN SCIENTIFIC LITERATURE
IN RADIOACTIVE WASTES: A BIBLIOMETRIC REVIEW**

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ABSTRACT

JOURNALS COVERAGE OF THE SOUTH EAST ASIAN SCIENTIFIC LITERATURE IN RADIOACTIVE WASTES: A BIBLIOMETRIC REVIEW

This study investigates the bibliometric review about radioactive wastes around Southeast Asian. Journals coverage of the South East Asian scientific literature in radioactive wastes by using a bibliometric review. To address rising energy demands and improve energy efficiency, many Southeast Asian countries are contemplating nuclear power. By using bibliometric analysis, it can be the way to evaluate the efficiency and correlations of Southeast Asian countries, institutions, authors, document types, publication years, research areas, keywords, and languages, as well as to use science mapping to analyze the co-occurrence of keywords and co-authorship of countries, organizations, and authors that related to the radioactive wastes. The data was retrieved from the Web of Science database and was analyzed using the VOSviewer software. 42 keywords out of 679 keywords from 659 articles met the threshold and were analyzed.

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CHAPTER 1

INTRODUCTION

1.1 Background of study

Bibliometric review is defined as a statistical study of books, papers, or other publications directed at evaluating the efficiency of individual research teams, organizations, and countries, identifying national and international networks, and mapping the growth of new (multidisciplinary) fields of science and technology, according to the OECD Glossary of Statistical Terms. (C.Studies, 2020)

Bibliometric is a collection of methods to evaluate scientific and technical literature quantitatively. Alan Pritchard coined the term in a paper titled “Statistical Bibliography or Bibliometric?”, published in 1969. He described the term as "the application of mathematics and statistical methods to books and other media of communication" (Ecotoxicity, 2020).

In general, bibliometric techniques are also used in the area of library and information science. In the field of science, bibliometrics are known as scientometrics, which are characterized as mathematical or statistical methods used to assess the quality and quantity of scientific literature published and to study research trends, citation analysis, publication effects, and journal analysis. Nowadays, in the field of radioactive waste, researchers often use bibliometric analysis or review to analyze in more detail the topic such as global trends and future prospects of radioactive waste research (Gao, 2020).