Research Trend of Environmental Education in Science Based on Scopus Database

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Sections Info

ABSTRACT

Objective: This study analyzes the trend of implementing environmental education in science research. **Method:** This research was conducted using the bibliometric literature study method. The data collection of this study used a Scopus database and was analyzed by the Vosviewer application. **Result:** From this study known that there is a significant increase in environmental education science research. The highest number of publications carried out in 2021 was six articles. The results of the VOSviewer visualization found 3 clusters red, green, and blue. Red cluster show related keyword research about education, curriculum, learning science, and education program. Green cluster show related keyword research about environmental education and science education. Blue cluster show related keyword research about sustainable development, science and technology, environmental technology, environmental science, and environmental sustainability. From the cluster, there are known that some theme related can be used to combine and use to research environmental education in science. **Novelty:** Analysis of these research trends can be used as a reference and a means of developing self-abilities concerning being an environmental educator in schools. Implementing environmental education can make students better understand and explore their abilities in science.

INTRODUCTION

Science is a branch of science that studies many parts of the universe. Science is a science that includes knowledge, research, and ways of thinking. Research in science education requires a set of interrelated concepts, including humans, society, the environment, society in life, and the world (Gilmanshina et al., 2018). Science education itself has many essential roles in developing world technology. So that the purpose of studying science is to apply various kinds of science to everyday life to solve various kinds of problems and care about the environment, to solve various kinds of problems and care for the environment and solve problems. Students must be competent to identify, analyze, evaluate, and determine actions. Problems that learners can solve will get meaningful experiences that are acceptable to the memory system of the learner's brain (Setyarsih et al., 2021). These various abilities are to the quality aspects of environmental education (Susilowati et al., 2019).

Environmental concern is a thought process so that students can provide an analysis of environmental issues to form competencies (Chusni, 2022). Environmental education is known as a goal in improving human relations with the environment (Bergman, 2015). The world is in an age of global warming which is expected to continue to reform and improve the world's quality but is also required to reduce damage and pollution. Problems certainly require solutions, so the best solution requires problem-Solving skills (Butterworth et al., 2013). Science learning tends to be one-way, so students look passive in implementing learning. The thinking ability of learners experiences obstacles and is

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