

DIMENSIONS OF THE SCIENCE LITERACY LEARNING ENVIRONMENT: SYSTEMATIC LITERATURE REVIEW USING THE PRISMA METHOD

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Abstract

This systematic literature review attempts to analyze various dimensions related to measuring the scientific literacy learning environment. Scientific literacy skills for students are very important in preparing to face the challenges of the modern world. Learning environments that support scientific literacy enable students to develop a holistic understanding of science and technology, including how science can be used to protect the environment and confront global threats. One approach to literature study is Systematic Literature Review (SLR). This research uses a Systematic Literature Review using the Prisma Method with the help of a VOS viewer. This research was limited by only searching for Scopus journal articles published in 2019-2024. Based on one hundred and nineteen (119) articles reviewed, through a systematic literature review process, with an article publication period between 2019 and 2024, the results were that only twenty (20) articles met the criteria and were used as references in this research. Based on the results of the systematic literature review analysis, it was concluded that the dimensions of the scientific literacy learning environment consisted of: science phenomena, science investigations, interest in science in free time, enjoyment of science, teacher support, student cooperation/cohesion, and the social implications of science.

Keyword: Learning Environment, Scientific Literacy, SLR, Prisma.

INTRODUCTION

Evaluation of education in Indonesia is an important aspect in understanding the effectiveness of the national education system and the quality of learning at various levels. In general, educational evaluation is carried out to measure the extent to which educational goals have been achieved, both at the individual student, school and national education policy levels. One important evaluation method in education in Indonesia is the Program for International Student Assessment (PISA), an international survey conducted every three years by the Organization for Economic Cooperation and Development (OECD). PISA is designed to measure the competency of 15-year-old students in three main areas: reading literacy, mathematics and science. The PISA evaluation focuses on students'