

Judul Artikel : The development of physics module oriented generative learning to increase the cognitive learning outcomes and science process skills of the students

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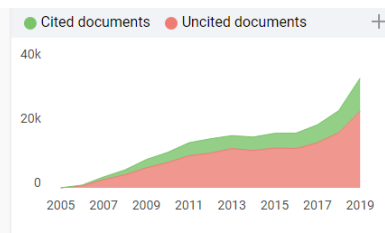
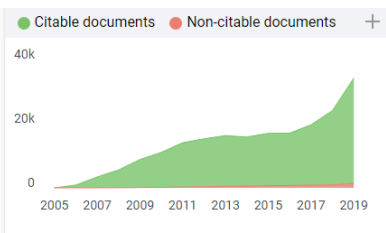
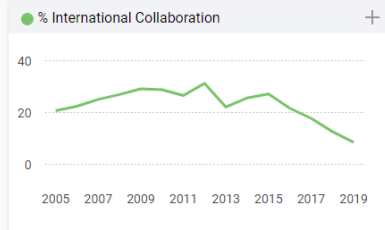
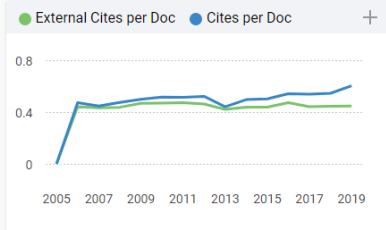
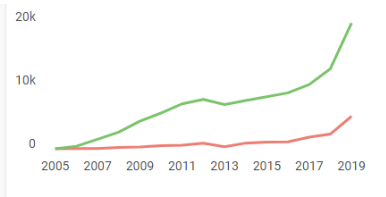
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The screenshot shows the article page for "The development of physics module oriented generative learning to increase the cognitive learning outcomes and science process skills of the students". The page includes the article title, authors (A Doyan^{1,2}, Susilawati^{1,2}, Kosim^{1,2}, Z Wardiawan¹, S Hakim¹, L Mulyadi¹ and Hamidi¹), and publication information. A "PAPER • OPEN ACCESS" badge is present. The article is available as a PDF, indicated by a "PDF" button. The page also shows "41 Total downloads" and a "Turn on MathJax" option. A sidebar on the right lists "physicsworld|jobs" and "Deputy Director of Research – National Quantum Computing Centre" at the Science and Technology Facilities Council (STFC). The Windows taskbar at the bottom shows the time as 6:03 PM on 1/26/2021.

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The development of physics module oriented generative learning to increase the cognitive learning outcomes and science process skills of the students

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Abstract. This study aims to develop a physics module oriented generative learning. The research and development design were modified into three stages: preliminary study, development, and trial. The preliminary study consists of literature studies and preliminary surveys. At the development stage, the module validation results are obtained with the criteria of "good". The stages of the trial were confined to the learner obtained N-gain values for cognitive learning outcomes and science process skills in the "moderate" category. The result of difference test of mean of control and experiment class is found that there is a significant difference with the average of experiment class higher than control class. Based on the questionnaire, learners respond positively to the module.

1. Introduction

The use of teaching materials in the form of modules is one of the uses of media in a learning process. The use of teaching materials in the learning process becomes an alternative teacher so that it is easier to teach material to students. Learning to use modules effectively will change the conceptions of students towards scientific concepts so that in turn their learning outcomes can be optimally improved both in terms of quality and quantity [1].

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