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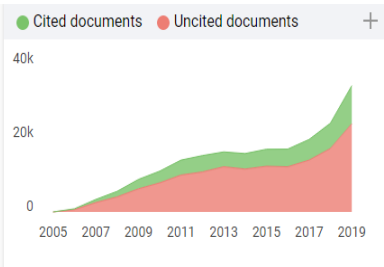
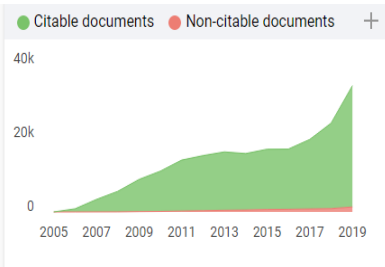
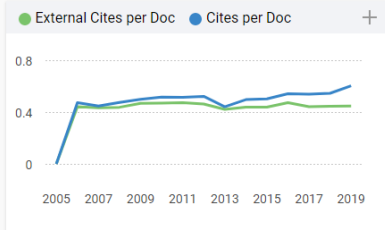
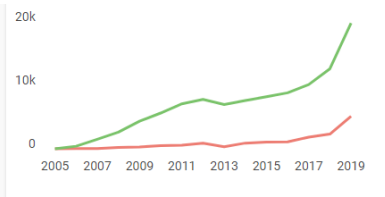
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The effectiveness of quantum phenomenon learning media with think pair share model implementation on understanding concept of students

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The effectiveness of quantum phenomenon learning media with think pair share model implementation on understanding concept of students

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Abstract. This study aims to examine the effectiveness of quantum phenomenon learning media with a think pair share model in improving students understanding of concepts at the high school level. The development of quantum phenomenon learning media uses a research model developed by Borg and Gall. To determine the effectiveness of instructional media on understanding concepts, learning media were tested in a limited group in one of the high schools in Central Lombok Regency, West Nusa Tenggara province, Indonesia. Indicators of understanding concepts according to the theory developed by Anderson and Krathwol which consist of interpreting, giving examples, classifying, summarizing, drawing references, comparing and explaining. The development process goes through several stages, namely the stages of validation, data collection and literature. The results of the N-gain analysis for one indicator obtained an increase in students understanding of concepts in both classes, namely the control class with a low category (0.29) while the experimental class with a high category (0.75) for black body radiation subject matter section. The t_{test} results obtained t_{count} (23.08) are greater than the t_{table} (1.67). The results of the analysis show that the quantum learning media with the implementation of the think pair share (TPS) model is effective in improving students conceptual understanding.

1. Introduction

The advancement of technological development and human thought requires teachers to be more creative [1]. The learning process is an important thing that needs to be considered by every teacher in delivering learning material. The teacher can provide a variety of ways to deliver material so that students are not bored with learning. Learning media is the right tool to help students in learning. The results showed that there was a significant effect on the Macromedia flash animation media on conceptual understanding.

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