

KRONOLOGIS (KORESPONDENSI) PUBLIKASI ARTIKEL PADA JURNAL INTERNASIONAL BEREPUTASI DAN BERDAMPAK FAKTOR

Judul : Computer-Based Experiment Of Free Fall Movement To Improve The Graphical Literacy
 Jurnal : Jurnal Pendidikan IPA Indonesia (Indonesian Journal of Science Education).
 Volume : 6
 Nomor : 1
 Halaman : 41-48
 Tahun : 2017
 Penulis : Bambang Subali ¹, Dadi Rusdiana ², Harry Firman ³, Ida Kaniawati ⁴, Ellianawati ⁵
 Program Studi Pendidikan Fisika, Jurusan Fisika, FMIPA Universitas Negeri Semarang
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No	Tanggal	Aktivitas
1	18 Februari 2017	Pembuatan Akun di JPII dan permintaan penggantian password via email Chief Editor
2	18 Februari 2017	Submit manuskrip pertama kali di JPII via OJS
3	8 Maret 2017	Keputusan review tahap 1 berisi: Setelah melalui review tahap I, Mohon Bapak/Ibu merevisi kembali artikel yang dikirim. Adapun hal-hal yang harus direvisi silakan dibuka pada format excel yang kami kirimkan. Untuk format selingkung penulisan daftar pustaka terlampir pada email. Kami tunggu revisi paling lambat 13 Maret 2017.
4	06 April 2017	Hasil review kedua: Accepted with little revision
5	09 April 2017	Hasil review 3 dan 4 menambahkan riset yang relevan, referensi dan perubahan yang diberi warna merah
6	13 April 2017	Artikel ACCEPTED yang siap terbit pada JPII April 2017 (surat keterangan resmi accepted menyusul). Artikel yang dinyatakan accepted, WAJIB untuk mengikuti seminar nasional IPA VIII.
7	04 Mei 2017	Persetujuan Publish
8	31 Juli 2017	Artikel masuk dalam publikasi Jurnal Pendidikan IPA Indonesia (JPII) yang terindeks scopus Q3 untuk Volume 6, Number 1, Tahun 2017, Halaman 41-48

1. Pembuatan Akun di JPII dan permintaan penggantian password via email Chief Editor.

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Authors B. Subali, D. Rusdiana, H. Firman, I. Kaniawati, E. Ellianawati

Title Computer-Based Experiment of Free Fall Movement to Improve the Graphical Literacy

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3. **Keputusan review tahap 1** adalah Setelah melalui review tahap I, Mohon Bapak/Ibu merevisi kembali artikel yang dikirim. Adapun hal-hal yang harus direvisi silakan dibuka pada format excel yang kami kirimkan. Untuk format selingkung penulisan daftar pustaka terlampir pada email. Kami tunggu revisi paling lambat 13 Maret 2017.

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Jurnal Pendidikan IPA Indonesia (Indonesian Journal of Science Education) published a scientific paper on the results of the study and review of the literature in the sphere of natural science education in primary education, secondary education and higher education. This journal in collaborate with *Perkumpulan Pendidik IPA Indonesia (PPII) / Indonesian Society for Science Educators*

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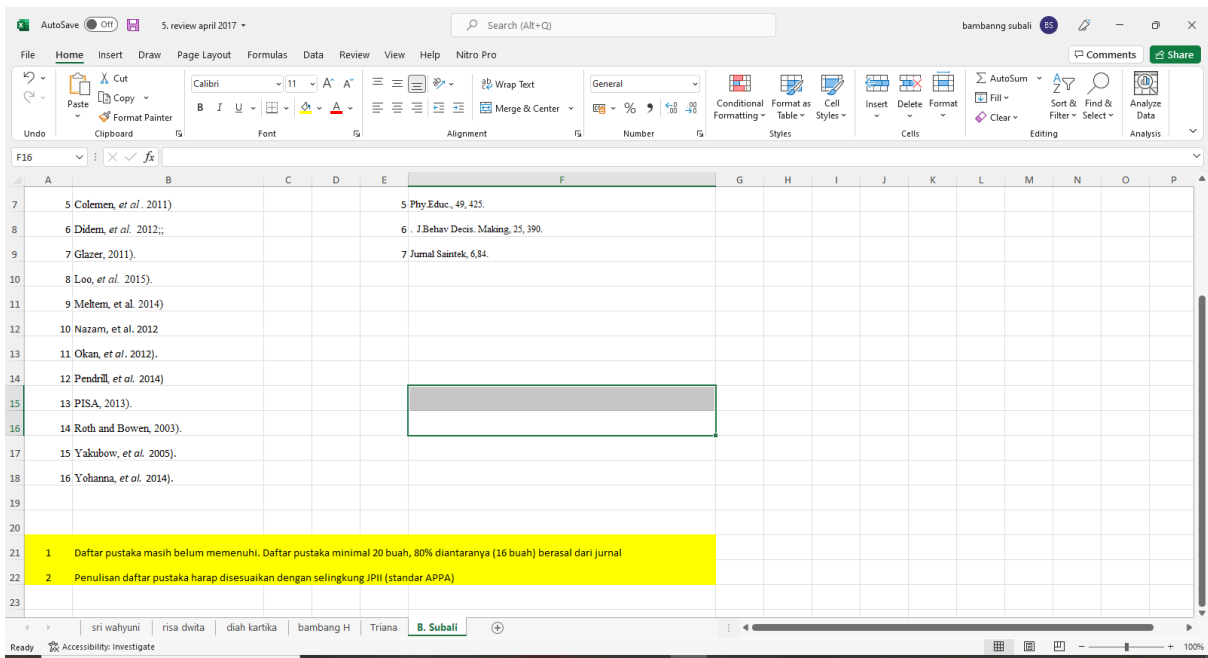
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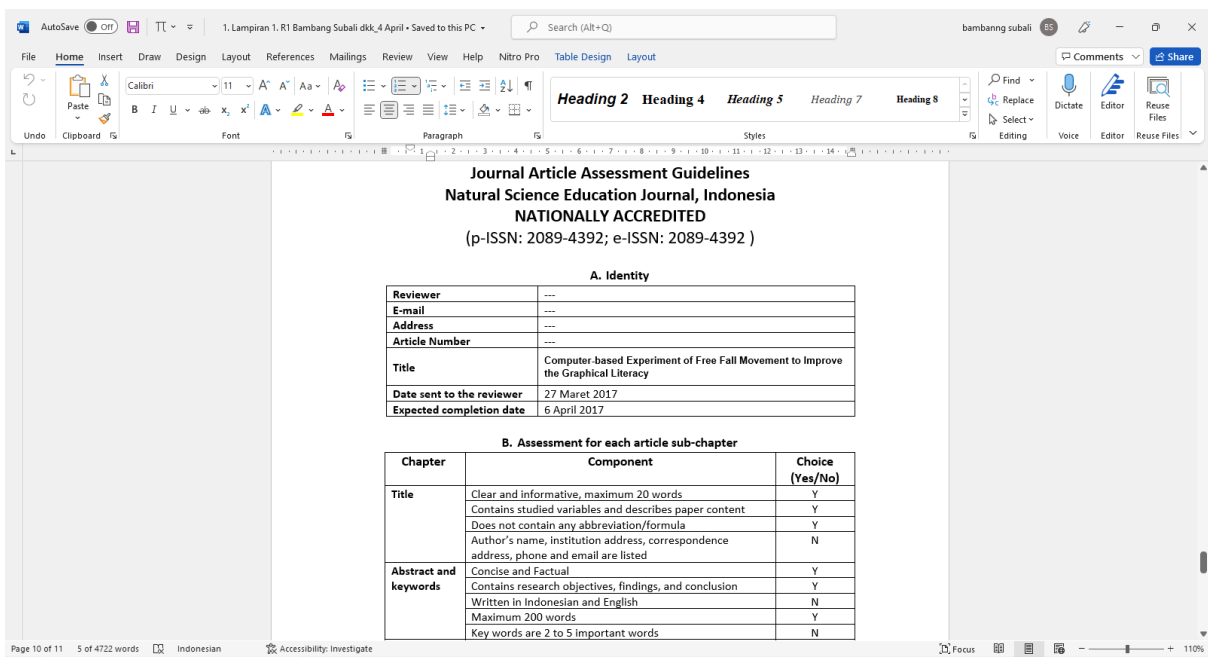
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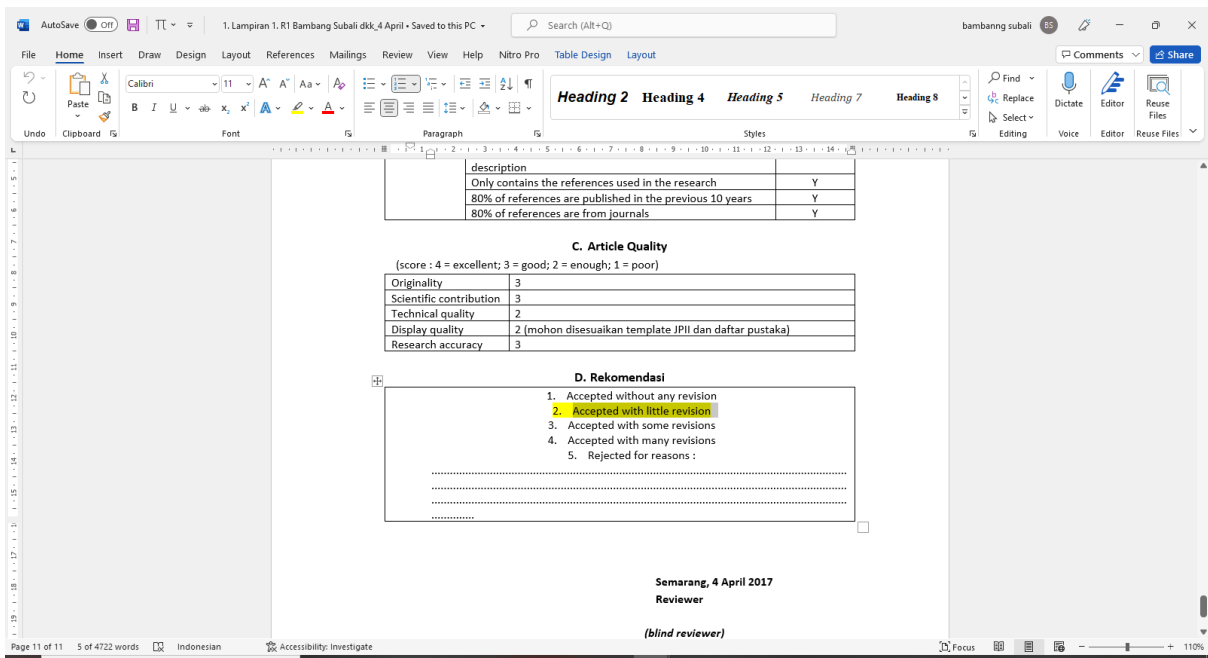
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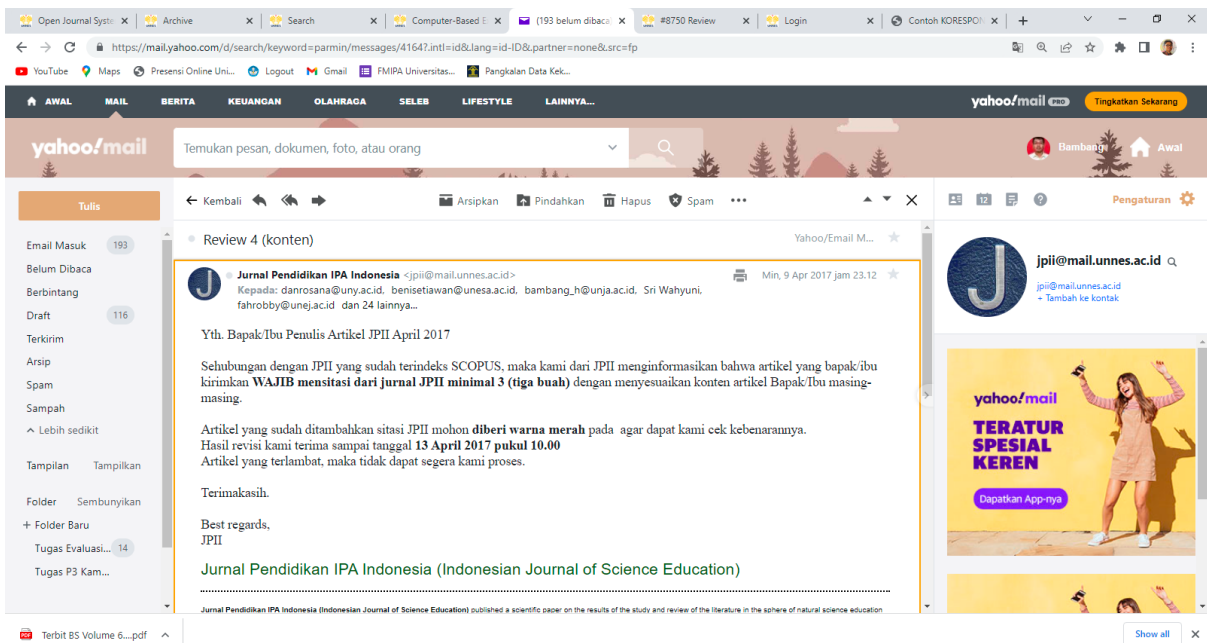


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5. Hasil review 3 dan 4 menambahkan riset yang relevan, referensi dan perubahan yang diberi warna merah



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Error	Mean
2.5	4.5
1.60	1.9

Based on Table 3, it could be explained that the initial ability of the graphical literacy for the experiment group was better ($M = 66.68$; Std. Error $M = 2.52$) than the control group ($M = 58.40$; Std. Error $M = 4.48$). After the learning of free fall movement using computer conducted, there was a significant improvement of the graphical literacy of the experiment group ($M = 90.29$; Std. Error $M = 1.60$) and also for the control group ($M = 84.05$; Std. Error $M = 1.92$). It showed that the learning strategy in both groups could foster the students' graphical literacy. However, if we compare between the strategies, we could see that the computer-based learning strategy could delve the graphical literacy ability more than the traditional strategy. It could be seen from the calculation of normalized gain; the experiment group was better ($N\text{-gain} = 0.71$) than the control group ($N\text{-gain} = 0.62$). The learning which combines the problem based learning, lab inquiry, and assisted by computer have been able to help students to understand the concept of free fall movement well. **This finding is at an agreement with research by Jamaal et al. (2016) that by exploring multimedia can help students in science learning by giving access to information, measuring, and analysis.**

From the analysis results, the difference in

problems before they have to delve and to find the problems within the learning (Bambang, et al. 2015b). **This founding is line with the research report that the use of multimedia has shown a positif impact in improving students' scientific literacy where graph literacy is included (Ardianto & Rubini, 2016)**

Table 4. Independent sample test for gain score graph literacy with computer-based experiment of free fall movement

Levene's Test of Variances		t-test for Equality of Means		95% Confidence Interval Of the Difference	
F	Sig.	t	df	Mean Diff	low Up
Equal variances assumed					
99.99	.34	2.456	56	6.23	.98 12
Equal variances not assumed					
-	2.5	43.8		6.24	1.18 11

The data of students' graphical literacy collected from experiment activities, students worksheet, and students' presentation is as shown

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the result of an experiment with the other groups and the design of the innovative device of free fall movement.

The computer-based learning strategy of free fall movement could improve the graphical literacy better than the traditional learning. The graphical literacy abilities which could be improved were identifying variables, operating device, reading the measurement result, making graph, formulating mathematics equation, predicting graph, concluding experiment result, and designing an innovative device, while the graphical literacy ability which could not be optimized was the ability to predict the graph because the students have no experience to read graph.

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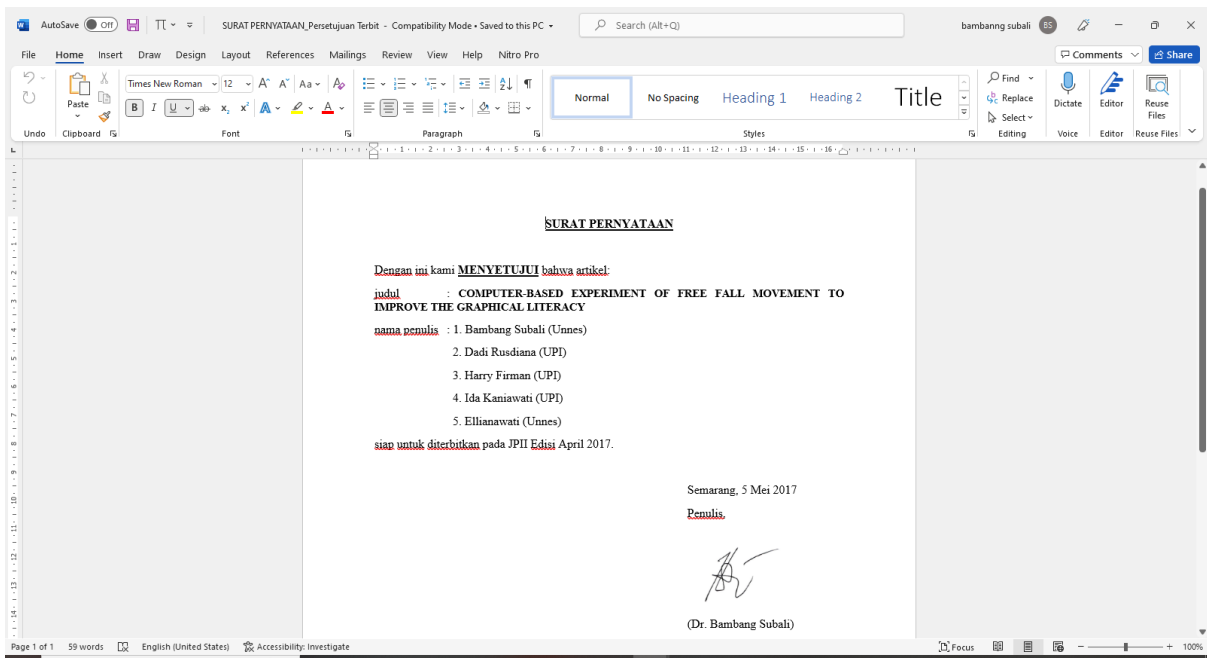
Nazam, S., Meltem, S., & Ali, B. 2012a. An

6. Hasil akhir: Artikel **ACCEPTED** yang siap terbit pada JPII April 2017 (surat keterangan resmi accepted menyusul). Artikel yang dinyatakan accepted, **WAJIB** untuk mengikuti seminar nasional IPA VIII.

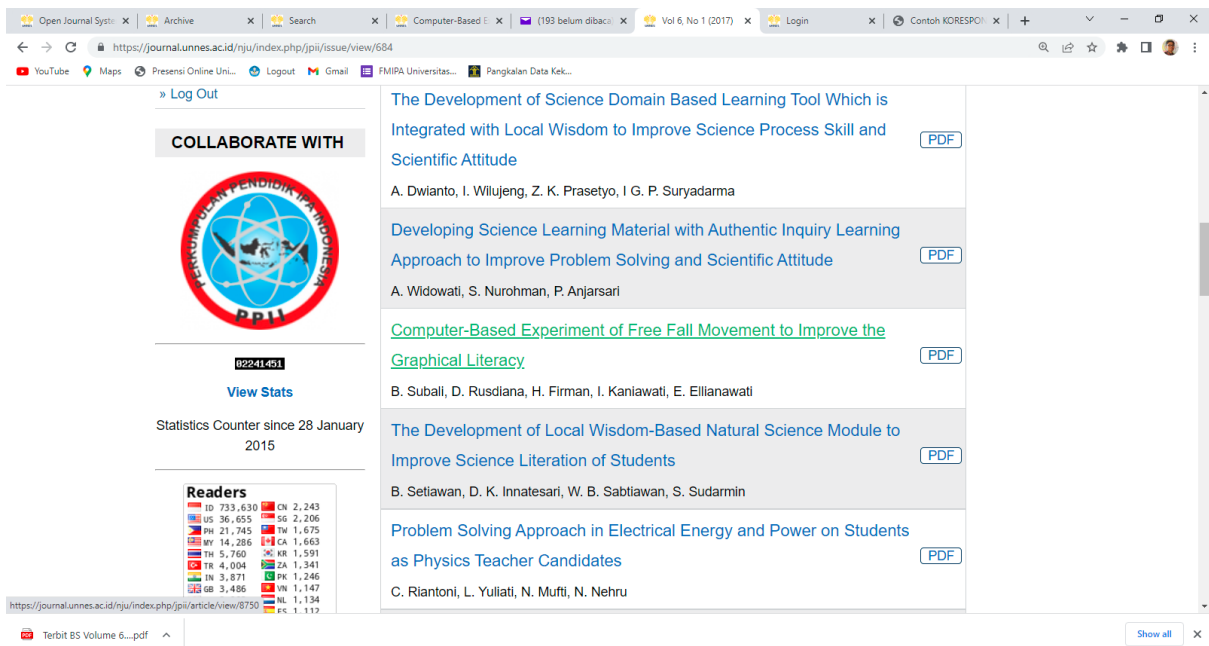
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