

# Heru Kuswanto

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

376  
citations

1307594

7  
h-index

940533

16  
g-index

72  
all docs

72  
docs citations

72  
times ranked

135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Physics Laboratory Application Based on the Android Smartphone to Improve Learning Independence and Conceptual Understanding. International Journal of Instruction, 2018, 11, 1-16.	1.3	108
2	Improving the Competence of Diagrammatic and Argumentative Representation in Physics through Android-based Mobile Learning Application. International Journal of Instruction, 2018, 11, 106-122.	1.3	28
3	Difference among Levels of Inquiry: Process Skills Improvement at Senior High School in Indonesia. International Journal of Instruction, 0, , 119-130.	1.3	26
4	Android-Assisted Mobile Physics Learning Through Indonesian Batik Culture: Improving Students'™ Creative Thinking and Problem Solving. International Journal of Instruction, 2018, 11, 287-302.	1.3	20
5	PENGARUH MODEL PEMBELAJARAN InSTAD TERHADAP KETERAMPILAN PROSES SAINS DAN HASIL BELAJAR KOGNITIF FISIKA DI SMA. Jurnal Inovasi Pendidikan IPA, 2015, 1, 202.	0.4	19
6	Android-assisted physics mobile learning to improve senior high school students'™ divergent thinking skills and physics HOTS. AIP Conference Proceedings, 2017, , .	0.4	11
7	Development of Physics Mobile Learning Based on Local Wisdom to Improve Vector and Diagram Representation Abilities. International Journal of Interactive Mobile Technologies, 2018, 12, 85.	1.2	10
8	Effect of Real-time Physics Organizer Based Smartphone and Indigenous Technology to Students'™ Scientific Literacy Viewed from Gender Differences. International Journal of Instruction, 2019, 12, 253-270.	1.3	9
9	Development of Android Comic Media for the Chapter of Newton'™s Gravity to Map Learning Motivation of Students. Journal of Physics: Conference Series, 2019, 1233, 012051.	0.4	7
10	The Effect of Laboratory Work Style and Reasoning with Arduino to Improve Scientific Attitude. International Journal of Instruction, 2019, 12, 321-336.	1.3	7
11	The Effect of Scaffolding Approach Assisted by PhET Simulation on Students'™ Conceptual Understanding and Students'™ Learning Independence in Physics. Journal of Physics: Conference Series, 2019, 1233, 012036.	0.4	6
12	Android-Assisted Physics Comic Learning to Train Students'™ Conceptual Understanding of Newton'™s Gravity. Journal of Physics: Conference Series, 2019, 1233, 012045.	0.4	6
13	Android-based Physics Comic Media Development on Thermodynamic Experiment for Mapping Cooperate Attitude for Senior High School. Journal of Physics: Conference Series, 2019, 1233, 012054.	0.4	6
14	Enhancing Students'™ Critical Thinking Skills through Physics Education Technology Simulation Assisted of Scaffolding Approach. Journal of Physics: Conference Series, 2019, 1233, 012062.	0.4	6
15	The Effectiveness of Physics Mobile Learning (PML) with Hombobatu theme to Improve the Ability of Diagram Representation and Critical Thinking of Senior High School Students. International Journal of Instruction, 2019, 12, 471-490.	1.3	6
16	Luminescence spectroscopy of hydrogen-associated defects in hydrogen-loaded and heated germanosilicate optical fibres. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2137-2143.	0.6	5
17	Development of Comic Integrated Student Worksheet to Improve Critical Thinking Ability in Microscope Material. Journal of Physics: Conference Series, 2019, 1233, 012069.	0.4	5
18	Development of android-based comics integrated with scientific approach in physics learning. Journal of Physics: Conference Series, 2020, 1440, 012040.	0.4	5

#	ARTICLE	IF	CITATIONS
19	The Effect of Scaffolding Approach Assisted by PhET Simulation on the Achievement of Science Process Skills in Physics. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012035.	0.4	4
20	The Implementation of Problem-based Learning Model with Online Simulation to Enhance the Student's Analytical Thinking Skill in Learning Physics. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012030.	0.4	4
21	Mathematical Representations Mapping of High School Students after using Multimedia Learning Modules Assisted by an Android Smartphone. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012049.	0.4	4
22	Creating physics comic media dol (a Bengkulu local wisdom musical instrument) in sound wave topic. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	4
23	Learning optics with android-assisted comics: the impacts on students critical thinking. <i>Journal of Physics: Conference Series</i> , 2020, 1440, 012055.	0.4	4
24	Heat and temperature metacognition awareness inventory: A confirmatory factor analysis. <i>International Journal of Evaluation and Research in Education</i> , 2021, 10, 389.	0.7	4
25	Developing Jemparangan Tradition-Based and Android-Assisted Learning Media for Improving the Graphic and Vector Representation Ability. <i>International Journal of Interactive Mobile Technologies</i> , 2019, 13, 58.	1.2	4
26	CAKA as Physics Learning Media Based on Android Apps on Smartphones. <i>Journal of Physics: Conference Series</i> , 2019, 1227, 012032.	0.4	3
27	Karapan Sapi as Android-Based Learning Module Material of Physics. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012063.	0.4	3
28	Multimedia Learning Module Development based on SIGIL Software in Physics Learning. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012042.	0.4	3
29	Improving Mathematical Representation Ability of Student's Senior High School by Inquiry Training Model with Google Classroom. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012043.	0.4	3
30	Developing of Learning Instruments based on Software Tracker in Measuring Cognitive Learning Outcomes. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012047.	0.4	3
31	Development of Android Comics media on Thermodynamic Experiment to Map the Science Process Skill for Senior High School. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012052.	0.4	3
32	Learning with the Social Media Assisted Science, Technology and Society Approach to Improve Self-Learning Motivation. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012060.	0.4	3
33	Using Arduino and online block-structured programming language for physics practical work. <i>Physics Education</i> , 2021, 56, 055028.	0.5	3
34	High blue power influence on the visible emissions of Er <sup>3+</sup> -doped germanosilicate optical fibres. <i>Optics Communications</i> , 1999, 170, 235-239.	2.1	2
35	Temperature, H <sub>2</sub> loading and ultra violet irradiation effects in germanosilicate optical fibers: laser spectroscopy measurements. <i>Journal of Non-Crystalline Solids</i> , 2001, 280, 277-280.	3.1	2
36	The Influence of Project Based Learning based on Process Skills Approach to Student's Creative Thinking Skill. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012033.	0.4	2

#	ARTICLE	IF	CITATIONS
37	The Effect of PjBL Model based on Skill Approach Process to Physics Critical Thinking Ability of High School Student. Journal of Physics: Conference Series, 2019, 1233, 012040.	0.4	2
38	SSP Development with a Scaffolding Approach Assisted by PhET Simulation on Light Refraction to Improve Studentsâ€™ Critical Thinking Skills and Achievement of Science Process Skills. Journal of Physics: Conference Series, 2019, 1233, 012044.	0.4	2
39	The Effect of Inductive Learning Model Assisted Mindmap Mindjet Mindmanager towards Critical Thinking Skills of Students. Journal of Physics: Conference Series, 2019, 1233, 012046.	0.4	2
40	Development of Student Worksheet through Deep Questions with Physics Comics to Train High Order Thinking Skill in High School Students in Optical Instrument Lup for Maximum Accommodation Eyes. Journal of Physics: Conference Series, 2019, 1233, 012057.	0.4	2
41	The Effect of Web-Assisted Problem Based Learning Model Towards Physics Problem Solving Ability of Class X Students. Journal of Physics: Conference Series, 2019, 1233, 012059.	0.4	2
42	Developing an Essay Test Instrument for Measuring Diagram Representation and the Capability of Argumentation on Newtonâ€™s Law. Journal of Physics: Conference Series, 2019, 1227, 012030.	0.4	2
43	The Effects of Web-Assisted Problem Based Learning Model of Physics Learning on High School Studentsâ€™ Critical Thinking Skills. Journal of Physics: Conference Series, 2019, 1233, 012048.	0.4	2
44	The effectiveness of the use of the Android-based Carom games comic integrated to discovery learning in improving critical thinking and mathematical representation abilities. Journal of Technology and Science Education, 2021, 11, 270.	1.2	2
45	Development of Analogy-Based Material Physics Module to Provide Analogy Ability of Physics Teachers Candidates. Jurnal Pendidikan Fisika Indonesia, 2020, 16, 34-40.	0.1	2
46	Optimizing Senior High School Students Creative Thinking Skills of Optical Devices through Inductive Learning Models Assisted by e-Mind Map. Journal of Physics: Conference Series, 2019, 1233, 012029.	0.4	1
47	Developing Learning Instruments using Tracker in Measuring Studentsâ€™ Science Process Skills. Journal of Physics: Conference Series, 2019, 1233, 012053.	0.4	1
48	The Effect of Web-Assisted Problem Based Learning Model on Physics Conceptual Understanding of 10th Grade Students. Journal of Physics: Conference Series, 2019, 1233, 012058.	0.4	1
49	Subject Specific Pedagogy Development with Scaffolding Approach Assisted by PhET Simulation on Momentum Conservation Law to Improve Studentsâ€™ Conceptual Understanding and Learning Independence. Journal of Physics: Conference Series, 2019, 1233, 012066.	0.4	1
50	Application of Outdoor Inquiry Learning Model on Cognitive Learning Outcomes of Class XI Senior High School Students. Journal of Physics: Conference Series, 2019, 1233, 012070.	0.4	1
51	Developing local wisdom-based mobile science learning in manufacturing sasirangan fabric to improve ICT literacy facility of junior high school students. AIP Conference Proceedings, 2020, , .	0.4	1
52	The Indonesian Version of the Physics Metacognition Inventory: Confirmatory Factor Analysis and Rasch Model. European Journal of Educational Research, 2021, volume-10-2021, 2133-2144.	1.3	1
53	Evaluation of the Suitability of Acoustic Characteristics of Electronic & Demung to the Original & Demung. Indian Journal of Science and Technology, 2015, 8, 122.	0.7	1
54	Mapping Students' Problem-Solving Skills in Physics Subject After Inquiry Learning at Class X SMAN 1 Prambanan. Jurnal Pendidikan Fisika Indonesia, 2019, 15, 60-69.	0.1	1

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55	Rasch Analysis to Evaluate the Psychometric Properties of Junior Metacognitive Awareness Inventory in the Indonesian Context. <i>Jurnal Pendidikan IPA Indonesia</i> , 2021, 10, 486-495.	1.3	1
56	The influence of curvature configuration on the characteristic of alcohol gel insertion jacket of polymer optical fiber liquid level sensor. <i>Journal of Physics: Conference Series</i> , 2018, 1011, 012053.	0.4	0
57	The honey insertion cladding to improve the sensitivity of temperature polymer optical fiber sensor. <i>Journal of Physics: Conference Series</i> , 2018, 1011, 012054.	0.4	0
58	Biomechanics of kicking ball by using aid tool "Parabolic Miraculous Legs" AIP Conference Proceedings, 2018, , .	0.4	0
59	Implementation of Problem Based Learning Model Assisted Edmodo to Measure Students Scientific Communication Skills. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012041.	0.4	0
60	Scientific Attitudes Mapping of Students after using PhEt Assisted Group Investigation Models. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012050.	0.4	0
61	Multimedia Learning Modules Development based on Android Assisted in Light Diffraction Concept. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012056.	0.4	0
62	Application of Multimedia Learning Modules assisted by "Tracker" Virtual Laboratory to Train Verbal Representation of Class XI High School Students. <i>Journal of Physics: Conference Series</i> , 2019, 1233, 012055.	0.4	0
63	The effect of frequency owl's sound, crickets, and combination of both towards rat reaction. AIP Conference Proceedings, 2019, , .	0.4	0
64	The effect of the use of indigenous knowledge-based Physics comics of Android-based marbles games on verbal representation and critical thinking abilities in Physics teaching. <i>Journal of Technology and Science Education</i> , 2021, 11, 581.	1.2	0
65	Improving Students' Mathematical Representation of Physics and Critical Thinking Abilities Using the CAKA Mobile Media Based on Local Wisdom. <i>International Journal of Interactive Mobile Technologies</i> , 2021, 15, 72.	1.2	0
66	Formation et transformation de défauts ponctuels par insolation UV dans les diélectriques à base de silice: application à l'intégration de composants optiques sur fibre. <i>European Physical Journal Special Topics</i> , 2003, 108, 23-27.	0.2	0
67	LUMINESCENCE PROPERTIES OF HYDROGEN LOADED GERMANOSILICATE OPTICAL FIBERS. , 1999, , .		0
68	Hydroxyl Properties of Hydrogenated Germanosilicate Optical Fiber Due to Thermal Treatment and Ultraviolet Irradiation. <i>Journal of Nano- and Electronic Physics</i> , 2017, 9, 01027-1-01027-4.	0.5	0
69	Utilization of the phyphox application (physical phone experiment) to calculate the moment of inertia of hollow cylinders. <i>Jurnal Ilmiah Pendidikan Fisika Al-Biruni</i> , 2021, 10, 231-240.	1.0	0
70	Study of reverse planting techniques on rice as physical science learning materials. <i>Jurnal Pijar Mipa</i> , 2021, 16, 449-453.	0.2	0
71	Implementation of Rasch Model for Mapping Students' Metacognitive Awareness. <i>Jurnal Pendidikan Fisika Indonesia</i> , 2021, 17, 86-93.	0.1	0