

N g Holmes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28

papers

481

citations

12

h-index

21

g-index

46

ext. papers

726

ext. citations

2.9

avg, IF

4.39

L-index

#	Paper	IF	Citations
28	Teaching critical thinking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11199-204	11.5	79
27	Evaluating metacognitive scaffolding in Guided Invention Activities. <i>Instructional Science</i> , 2012 , 40, 691-710		71
26	Making the failure more productive: scaffolding the invention process to improve inquiry behaviors and outcomes in invention activities. <i>Instructional Science</i> , 2014 , 42, 523-538	2	38
25	Value added or misattributed? A multi-institution study on the educational benefit of labs for reinforcing physics content. <i>Physical Review Physics Education Research</i> , 2017 , 13,	2.3	30
24	Gender gaps and gendered action in a first-year physics laboratory. <i>Physical Review Physics Education Research</i> , 2016 , 12,	2.3	26
23	Ready student one: Exploring the predictors of student learning in virtual reality. <i>PLoS ONE</i> , 2020 , 15, e0229788	3.7	22
22	Examining and contrasting the cognitive activities engaged in undergraduate research experiences and lab courses. <i>Physical Review Physics Education Research</i> , 2016 , 12,	2.3	19
21	Quantitative Comparisons to Promote Inquiry in the Introductory Physics Lab. <i>Physics Teacher</i> , 2015 , 53, 352-355	0.4	18
20	Operationalizing the AAPT Learning Goals for the Lab. <i>Physics Teacher</i> , 2019 , 57, 296-299	0.4	17
19	Developing scientific decision making by structuring and supporting student agency. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	13
18	A fundamental parameters approach to calibration of the Mars Exploration Rover Alpha Particle X-ray Spectrometer. <i>Journal of Geophysical Research</i> , 2009 , 114,		12
17	Tools for Change: Measuring Student Conceptual Understanding Across Undergraduate Biology Programs Using Bio-MAPS Assessments. <i>Journal of Microbiology and Biology Education</i> , 2019 , 20,	1.3	12
16	Quantifying critical thinking: Development and validation of the physics lab inventory of critical thinking. <i>Physical Review Physics Education Research</i> , 2019 , 15,	2.3	11
15	Direct Measurement of the Impact of Teaching Experimentation in Physics Labs. <i>Physical Review X</i> , 2020 , 10,	9.1	9
14	Teaching Assistant Professional Development by and for TAs. <i>Physics Teacher</i> , 2013 , 51, 218-219	0.4	9
13	Group roles in unstructured labs show inequitable gender divide. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	7
12	A re-examination of the fundamental parameters approach to calibration of the Curiosity rover alpha particle X-ray spectrometer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 447, 22-29 ^{1.2}		5

11	Examination of quantitative methods for analyzing data from concept inventories. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	5
10	How expectations of confirmation influence students' experimentation decisions in introductory labs. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	4
9	Supporting decision-making in upper-level chemical engineering laboratories. <i>Education for Chemical Engineers</i> , 2021 , 35, 69-80	2.4	3
8	Using the Ecology and Evolution-Measuring Achievement and Progression in Science assessment to measure student thinking across the Four-Dimensional Ecology Education framework. <i>Ecosphere</i> , 2019 , 10, e02873	3.1	2
7	Evaluating instructional labs' use of deliberate practice to teach critical thinking skills. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	2
6	Investigating the landscape of physics laboratory instruction across North America. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	2
5	Exploring the effects of omitted variable bias in physics education research. <i>Physical Review Physics Education Research</i> , 2021 , 17,	2.3	2
4	Exploring bias in mechanical engineering students' perceptions of classmates. <i>PLoS ONE</i> , 2019 , 14, e0213477	3.4	1
3	Evaluating the role of student preference in physics lab group equity. <i>Physical Review Physics Education Research</i> , 2022 , 18,	2.3	1
2	Restructuring physics labs to cultivate sense of student agency. <i>Physical Review Physics Education Research</i> , 2021 , 17,	2.3	1
1	Why Traditional Labs Fail—and What We Can Do About It 2020 , 271-290		0