

Marcos D Caballero

List of Publications by Year in Descending Order

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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.

38
papers

569
citations

13
h-index

23
g-index

63
ext. papers

748
ext. citations

3.2
avg, IF

3.88
L-index

#	Paper	IF	Citations
38	Three cases that demonstrate how students connect the domains of mathematics and computing. <i>Journal of Mathematical Behavior</i> , 2022 , 67, 100955	1.1	0
37	Physics Graduate Record Exam does not help applicants stand out. <i>Physical Review Physics Education Research</i> , 2021 , 17,	2.3	1
36	Framework for evaluating statistical models in physics education research. <i>Physical Review Physics Education Research</i> , 2021 , 17,	2.3	2
35	Characterizing college science instruction: The Three-Dimensional Learning Observation Protocol. <i>PLoS ONE</i> , 2020 , 15, e0234640	3.7	12
34	Thematic analysis of 18 years of physics education research conference proceedings using natural language processing. <i>Physical Review Physics Education Research</i> , 2020 , 16,	2.3	2
33	Predicting time to graduation at a large enrollment American university. <i>PLoS ONE</i> , 2020 , 15, e0242334	3.7	3
32	PICUP: A Community of Teachers Integrating Computation into Undergraduate Physics Courses. <i>Physics Teacher</i> , 2019 , 57, 397-399	0.4	9
31	Design, analysis, tools, and apprenticeship (DATA) Lab. <i>European Journal of Physics</i> , 2019 , 40, 065701	0.8	1
30	Identifying features predictive of faculty integrating computation into physics courses. <i>Physical Review Physics Education Research</i> , 2019 , 15,	2.3	6
29	Modeling student pathways in a physics bachelor's degree program. <i>Physical Review Physics Education Research</i> , 2019 , 15,	2.3	7
28	Physics computational literacy: An exploratory case study using computational essays. <i>Physical Review Physics Education Research</i> , 2019 , 15,	2.3	4
27	Analysis of the most common concept inventories in physics: What are we assessing?. <i>Physical Review Physics Education Research</i> , 2018 , 14,	2.3	10
26	Prevalence and nature of computational instruction in undergraduate physics programs across the United States. <i>Physical Review Physics Education Research</i> , 2018 , 14,	2.3	8
25	Development of the Modes of Collaboration framework. <i>Physical Review Physics Education Research</i> , 2018 , 14,	2.3	1
24	Evaluating the extent of a large-scale transformation in gateway science courses. <i>Science Advances</i> , 2018 , 4, eaau0554	14.3	27
23	Fostering students' epistemic agency through the co-configuration of moth research. <i>Science Education</i> , 2018 , 102, 1176-1200	4.3	21
22	Comment on "Analyzing the Role of Science Practices in ACS Exam Items". <i>Journal of Chemical Education</i> , 2017 , 94, 673-674	2.4	

21	P 3 : a practice focused learning environment. <i>European Journal of Physics</i> , 2017 , 38, 055701	0.8	16
20	Assessing learning outcomes in middle-division classical mechanics: The Colorado Classical Mechanics and Math Methods Instrument. <i>Physical Review Physics Education Research</i> , 2017 , 13,	2.3	3
19	Characterizing College Science Assessments: The Three-Dimensional Learning Assessment Protocol. <i>PLoS ONE</i> , 2016 , 11, e0162333	3.7	113
18	Challenge faculty to transform STEM learning. <i>Science</i> , 2015 , 350, 281-2	33.3	84
17	Unpacking students' use of mathematics in upper-division physics: where do we go from here?. <i>European Journal of Physics</i> , 2015 , 36, 065004	0.8	10
16	Educational transformation in upper-division physics: The Science Education Initiative model, outcomes, and lessons learned. <i>Physical Review Physics Education Research</i> , 2015 , 11,		19
15	Development and uses of upper-division conceptual assessments. <i>Physical Review Physics Education Research</i> , 2015 , 11,		11
14	Bridging physics and biology teaching through modeling. <i>American Journal of Physics</i> , 2014 , 82, 434-441	0.7	17
13	Integrating Numerical Computation into the Modeling Instruction Curriculum. <i>Physics Teacher</i> , 2014 , 52, 38-42	0.4	15
12	A model for incorporating computation without changing the course: An example from middle-division classical mechanics. <i>American Journal of Physics</i> , 2014 , 82, 231-237	0.7	8
11	Uncovering the hidden meaning of cross-curriculum comparison results on the Force Concept Inventory. <i>Physical Review Physics Education Research</i> , 2014 , 10,		6
10	Upper-division student understanding of Coulomb's law: Difficulties with continuous charge distributions 2013 ,		6
9	Understanding student computational thinking with computational modeling 2013 ,		10
8	ACER: A framework on the use of mathematics in upper-division physics 2013 ,		4
7	Analytic framework for students' use of mathematics in upper-division physics. <i>Physical Review Physics Education Research</i> , 2013 , 9,		27
6	Fostering computational thinking in introductory mechanics 2012 ,		2
5	Colorado Upper-Division Electrostatics diagnostic: A conceptual assessment for the junior level. <i>Physical Review Physics Education Research</i> , 2012 , 8,		20
4	Implementing and assessing computational modeling in introductory mechanics. <i>Physical Review Physics Education Research</i> , 2012 , 8,		20

3	Tale of two curricula: The performance of 2000 students in introductory electromagnetism. <i>Physical Review Physics Education Research</i> , 2009 , 5,		25
2	Placing the Deep Impact Mission into context: Two decades of observations of 9P/Tempel 1 from McDonald Observatory. <i>Icarus</i> , 2009 , 199, 119-128	3.8	5
1	Students' Development of a Logarithm Function in Python Using Taylor Expansions: a Teaching Design Case Study. <i>Digital Experiences in Mathematics Education</i> , 1	0.7	1