

Eric W Burkholder

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

321
citations

1040056

9
h-index

839539

18
g-index

28
all docs

28
docs citations

28
times ranked

306
citing authors

#	ARTICLE	IF	CITATIONS
1	Demographic gaps or preparation gaps?: The large impact of incoming preparation on performance of students in introductory physics. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	70
2	Tracer diffusion in active suspensions. <i>Physical Review E</i> , 2017, 95, 052605.	2.1	42
3	Modeling enzymatic hydrolysis of lignocellulosic substrates using fluorescent confocal microscopy II: Pretreated biomass. <i>Biotechnology and Bioengineering</i> , 2015, 112, 32-42.	3.3	32
4	Fluctuation-dissipation in active matter. <i>Journal of Chemical Physics</i> , 2019, 150, 184901.	3.0	31
5	Modeling enzymatic hydrolysis of lignocellulosic substrates using confocal fluorescence microscopy I: Filter paper cellulose. <i>Biotechnology and Bioengineering</i> , 2015, 112, 21-31.	3.3	24
6	A Detailed Characterization of the Expert Problem-Solving Process in Science and Engineering: Guidance for Teaching and Assessment. <i>CBE Life Sciences Education</i> , 2021, 20, ar43.	2.3	24
7	Template for teaching and assessment of problem solving in introductory physics. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	14
8	Nonlinear microrheology of active Brownian suspensions. <i>Soft Matter</i> , 2020, 16, 1034-1046.	2.7	13
9	Importance of math prerequisites for performance in introductory physics. <i>Physical Review Physics Education Research</i> , 2021, 17, .	2.9	12
10	Examination of quantitative methods for analyzing data from concept inventories. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	11
11	Evaluating the problem-solving skills of graduating chemical engineering students. <i>Education for Chemical Engineers</i> , 2021, 34, 68-77.	4.8	10
12	Do hydrodynamic interactions affect the swim pressure?. <i>Soft Matter</i> , 2018, 14, 3581-3589.	2.7	9
13	Supporting decision-making in upper-level chemical engineering laboratories. <i>Education for Chemical Engineers</i> , 2021, 35, 69-80.	4.8	9
14	What do AP physics courses teach and the AP physics exam measure?. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	6
15	What factors impact student performance in introductory physics?. <i>PLoS ONE</i> , 2020, 15, e0244146.	2.5	4
16	Validated diagnostic test for introductory physics course placement. <i>Physical Review Physics Education Research</i> , 2021, 17, .	2.9	3
17	Characterizing the mathematical problem-solving strategies of transitioning novice physics students. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	3
18	Mixed results from a multiple regression analysis of supplemental instruction courses in introductory physics. <i>PLoS ONE</i> , 2021, 16, e0249086.	2.5	2

#	ARTICLE	IF	CITATIONS
19	AP physics: A closer look. Physical Review Physics Education Research, 2021, 17, .	2.9	1
20	Work in Progress: Testing an Assessment of Problem Solving in Introductory Chemical Process Design Courses. , 0, , .		1
21	Evidence-Based Principles for Worksheet Design. Physics Teacher, 2021, 59, 402-403.	0.3	0
22	Comparing problem-solving across capstone design courses in chemical engineering. , 2020, , .		0
23	What decisions do experts make when doing back-of-the-envelope calculations?. Physical Review Physics Education Research, 2022, 18, .	2.9	0
24	What factors impact student performance in introductory physics?. , 2020, 15, e0244146.		0
25	What factors impact student performance in introductory physics?. , 2020, 15, e0244146.		0
26	What factors impact student performance in introductory physics?. , 2020, 15, e0244146.		0
27	What factors impact student performance in introductory physics?. , 2020, 15, e0244146.		0
28	Exploring the pre-instruction gender gap in physics. PLoS ONE, 2022, 17, e0271184.	2.5	0