

Emily Marshman

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

623
citations

840776

11
h-index

642732

23
g-index

34
all docs

34
docs citations

34
times ranked

192
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of student difficulties in upper-level quantum mechanics. Physical Review Physics Education Research, 2015, 11, .	1.7	96
2	Framework for understanding the patterns of student difficulties in quantum mechanics. Physical Review Physics Education Research, 2015, 11, .	1.7	68
3	A longitudinal analysis of students'™ motivational characteristics in introductory physics courses: Gender differences. Canadian Journal of Physics, 2018, 96, 391-405.	1.1	59
4	Interactive tutorial to improve student understanding of single photon experiments involving a Mach-Zehnder interferometer. European Journal of Physics, 2016, 37, 024001.	0.6	46
5	Investigating and improving student understanding of quantum mechanics in the context of single photon interference. Physical Review Physics Education Research, 2017, 13, .	2.9	34
6	Case study evaluating Just-In-Time Teaching and Peer Instruction using clickers in a quantum mechanics course. Physical Review Physics Education Research, 2016, 12, .	2.9	31
7	Investigating and improving student understanding of the probability distributions for measuring physical observables in quantum mechanics. European Journal of Physics, 2017, 38, 025705.	0.6	29
8	Investigating and improving student understanding of the expectation values of observables in quantum mechanics. European Journal of Physics, 2017, 38, 045701.	0.6	27
9	Validation and administration of a conceptual survey on the formalism and postulates of quantum mechanics. Physical Review Physics Education Research, 2019, 15, .	2.9	23
10	Investigating and improving student understanding of quantum mechanical observables and their corresponding operators in Dirac notation. European Journal of Physics, 2018, 39, 015707.	0.6	16
11	Contrasting grading approaches in introductory physics and quantum mechanics: The case of graduate teaching assistants. Physical Review Physics Education Research, 2017, 13, .	2.9	15
12	The challenges of changing teaching assistants'™ grading practices: Requiring students to show evidence of understanding. Canadian Journal of Physics, 2018, 96, 420-437.	1.1	12
13	Investigating and addressing student difficulties with the corrections to the energies of the hydrogen atom for the strong and weak field Zeeman effect. European Journal of Physics, 2018, 39, 045701.	0.6	11
14	Improving student understanding of quantum mechanics underlying the Stern-Gerlach experiment using a research-validated multiple-choice question sequence. European Journal of Physics, 2019, 40, 055702.	0.6	11
15	Investigating Student Difficulties with Dirac Notation. , 0, , .		11
16	Investigating and addressing student difficulties with a <i>good</i> basis for finding perturbative corrections in the context of degenerate perturbation theory. European Journal of Physics, 2018, 39, 055701.	0.6	10
17	Improving student understanding of fine structure corrections to the energy spectrum of the hydrogen atom. American Journal of Physics, 2019, 87, 594-605.	0.7	10
18	Improving student understanding of corrections to the energy spectrum of the hydrogen atom for the Zeeman effect. Physical Review Physics Education Research, 2019, 15, .	2.9	10

#	ARTICLE	IF	CITATIONS
19	Developing an Interactive Tutorial on a Quantum Eraser. , 0, , .		10
20	Developing an interactive tutorial on a Mach-Zehnder Interferometer with single photons. , 0, , .		10
21	Student understanding of Fermi energy, the Fermi-Dirac distribution and total electronic energy of a free electron gas. European Journal of Physics, 2020, 41, 015704.	0.6	9
22	Investigating Student Difficulties with Time dependence of Expectation Values in Quantum Mechanics. , 0, , .		9
23	Improving student understanding of a system of identical particles with a fixed total energy. American Journal of Physics, 2019, 87, 583-593.	0.7	8
24	Student difficulties with quantum states while translating state vectors in Dirac notation to wave functions in position and momentum representations. , 0, , .		8
25	Physics teaching assistants' views of different types of introductory problems: Challenge of perceiving the instructional benefits of context-rich and multiple-choice problems. Physical Review Physics Education Research, 2018, 14, .	2.9	7
26	Developing and evaluating an interactive tutorial on degenerate perturbation theory. , 0, , .		7
27	Physics graduate teaching assistants' beliefs about a grading rubric: Lessons learned. , 0, , .		7
28	Analogous Patterns of Student Reasoning Difficulties in Introductory Physics and Upper- Level Quantum Mechanics. , 0, , .		6
29	Student difficulties with representations of quantum operators corresponding to observables. , 0, , .		6
30	Instructional Goals and Grading Practices of Graduate Students after One Semester of Teaching Experience. , 0, , .		5
31	Graduate teaching assistants' views of broken-into-parts physics problems: Preference for guidance overshadows development of self-reliance in problem solving. Physical Review Physics Education Research, 2020, 16, .	2.9	4
32	Grading Practices and Considerations of Graduate Students at the Beginning of their Teaching Assignment. , 0, , .		4
33	Physics postgraduate teaching assistants' grading approaches: conflicting goals and practices. European Journal of Physics, 2020, 41, 055701.	0.6	3
34	Investigating and improving student understanding of the basics for a system of identical particles. American Journal of Physics, 2022, 90, 110-117.	0.7	1