

Peter S Shaffer

List of Publications by Year in descending order

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24
papers

1,503
citations

471509

17
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing student understanding of spectra through the use of a typical experiment used in teaching introductory modern physics. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	2
2	Research-based quantum instruction: Paradigms and Tutorials. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	9
3	Investigating how students relate inner products and quantum probabilities. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	11
4	Developing and assessing tutorials for quantum mechanics: Time dependence and measurements. <i>Physical Review Physics Education Research</i> , 2018, 14, .	2.9	10
5	University student reasoning about the basic tenets of kinetic-molecular theory, Part II: Pressure of an ideal gas. <i>American Journal of Physics</i> , 2016, 84, 795-809.	0.7	3
6	Examining student ideas about energy measurements on quantum states across undergraduate and graduate levels. <i>Physical Review Physics Education Research</i> , 2015, 11, .	1.7	38
7	Student understanding of time dependence in quantum mechanics. <i>Physical Review Physics Education Research</i> , 2015, 11, .	1.7	34
8	“Combustion always produces carbon dioxide and water” a discussion of university chemistry students' use of rules in place of principles. <i>Chemistry Education Research and Practice</i> , 2014, 15, 763-776.	2.5	3
9	Investigating student ability to apply basic electrostatics concepts to conductors. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	5
10	Examining student ability to interpret and use potential energy diagrams for classical systems. , 2012, , .		7
11	Student understanding of control of variables: Deciding whether or not a variable influences the behavior of a system. <i>American Journal of Physics</i> , 2008, 76, 163-170.	0.7	42
12	Improving the preparation of K-12 teachers through physics education research. <i>American Journal of Physics</i> , 2006, 74, 763-767.	0.7	37
13	A research-based approach to improving student understanding of the vector nature of kinematical concepts. <i>American Journal of Physics</i> , 2005, 73, 921-931.	0.7	86
14	Student understanding of static equilibrium: Predicting and accounting for balancing. <i>American Journal of Physics</i> , 2005, 73, 545-553.	0.7	33
15	Student understanding of the ideal gas law, Part II: A microscopic perspective. <i>American Journal of Physics</i> , 2005, 73, 1064-1071.	0.7	64
16	The challenge of changing deeply held student beliefs about the relativity of simultaneity. <i>American Journal of Physics</i> , 2002, 70, 1238-1248.	0.7	51
17	Student understanding of time in special relativity: Simultaneity and reference frames. <i>American Journal of Physics</i> , 2001, 69, S24-S35.	0.7	59
18	Student understanding of the wave nature of matter: Diffraction and interference of particles. <i>American Journal of Physics</i> , 2000, 68, S42-S51.	0.7	41

#	ARTICLE	IF	CITATIONS
19	An investigation of student understanding of single-slit diffraction and double-slit interference. American Journal of Physics, 1999, 67, 146-155.	0.7	117
20	Addressing student difficulties in applying a wave model to the interference and diffraction of light. American Journal of Physics, 1999, 67, S5-S15.	0.7	61
21	Development and assessment of a research-based tutorial on light and shadow. American Journal of Physics, 1998, 66, 906-913.	0.7	61
22	Research as a guide for teaching introductory mechanics: An illustration in the context of the Atwood's machine. American Journal of Physics, 1994, 62, 46-55.	0.7	96
23	Research as a guide for curriculum development: An example from introductory electricity. Part I: Investigation of student understanding. American Journal of Physics, 1992, 60, 994-1003.	0.7	386
24	Research as a guide for curriculum development: An example from introductory electricity. Part II: Design of instructional strategies. American Journal of Physics, 1992, 60, 1003-1013.	0.7	183