

# Peter S Shaffer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8602613/publications.pdf>

Version: 2024-02-01

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	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
2	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
3	An investigation of student understanding of single-slit diffraction and double-slit interference. American Journal of Physics, 1999, 67, 146-155.	0.7	117
4	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
5	A research-based approach to improving student understanding of the vector nature of kinematical concepts. American Journal of Physics, 2005, 73, 921-931.	0.7	86
6	Student understanding of the ideal gas law, Part II: A microscopic perspective. American Journal of Physics, 2005, 73, 1064-1071.	0.7	64
7	Development and assessment of a research-based tutorial on light and shadow. American Journal of Physics, 1998, 66, 906-913.	0.7	61
8	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
9	Student understanding of time in special relativity: Simultaneity and reference frames. American Journal of Physics, 2001, 69, S24-S35.	0.7	59
10	The challenge of changing deeply held student beliefs about the relativity of simultaneity. American Journal of Physics, 2002, 70, 1238-1248.	0.7	51
11	Student understanding of control of variables: Deciding whether or not a variable influences the behavior of a system. American Journal of Physics, 2008, 76, 163-170.	0.7	42
12	Student understanding of the wave nature of matter: Diffraction and interference of particles. American Journal of Physics, 2000, 68, S42-S51.	0.7	41
13	Examining student ideas about energy measurements on quantum states across undergraduate and graduate levels. Physical Review Physics Education Research, 2015, 11, .	1.7	38
14	Improving the preparation of K-12 teachers through physics education research. American Journal of Physics, 2006, 74, 763-767.	0.7	37
15	Student understanding of time dependence in quantum mechanics. Physical Review Physics Education Research, 2015, 11, .	1.7	34
16	Student understanding of static equilibrium: Predicting and accounting for balancing. American Journal of Physics, 2005, 73, 545-553.	0.7	33
17	Investigating how students relate inner products and quantum probabilities. Physical Review Physics Education Research, 2019, 15, .	2.9	11
18	Developing and assessing tutorials for quantum mechanics: Time dependence and measurements. Physical Review Physics Education Research, 2018, 14, .	2.9	10

#	ARTICLE	IF	CITATIONS
19	Research-based quantum instruction: Paradigms and Tutorials. Physical Review Physics Education Research, 2020, 16, .	2.9	9
20	Examining student ability to interpret and use potential energy diagrams for classical systems. , 2012, , .		7
21	Investigating student ability to apply basic electrostatics concepts to conductors. AIP Conference Proceedings, 2013, , .	0.4	5
22	“Combustion always produces carbon dioxide and water” a discussion of university chemistry students' use of rules in place of principles. Chemistry Education Research and Practice, 2014, 15, 763-776.	2.5	3
23	University student reasoning about the basic tenets of kinetic-molecular theory, Part II: Pressure of an ideal gas. American Journal of Physics, 2016, 84, 795-809.	0.7	3
24	Probing student understanding of spectra through the use of a typical experiment used in teaching introductory modern physics. Physical Review Physics Education Research, 2020, 16, .	2.9	2