Robert Beichner

List of Publications by Year
in descending order

45 papers	2,753 citations	361413 20 h-index	361022 35 g-index
47 all docs	47 docs citations	47 times ranked	1583 citing authors

#	Article	IF	Citations
1	EDUCATION: Scientific Teaching. Science, 2004, 304, 521-522.	12.6	773
2	Testing student interpretation of kinematics graphs. American Journal of Physics, 1994, 62, 750-762.	0.7	377
3	Studentsâ€™ understanding of direct current resistive electrical circuits. American Journal of Physics, 2004, 72, 98-115.	0.7	280
4	Evaluating an electricity and magnetism assessment tool: Brief electricity and magnetism assessment. Physical Review Physics Education Research, 2006, 2, .	1.7	247
5	Approaches to data analysis of multiple-choice questions. Physical Review Physics Education Research, 2009, 5, .	1.7	164
6	Comparison of student performance using web and paper-based homework in college-level physics. Journal of Research in Science Teaching, 2003, 40, 1050-1071.	3.3	122
7	The impact of video motion analysis on kinematics graph interpretation skills. American Journal of Physics, 1996, 64, 1272-1277.	0.7	119
8	The effect of simultaneous motion presentation and graph generation in a kinematics lab. Journal of Research in Science Teaching, 1990, 27, 803-815.	3.3	88
9	Online homework: Does it make a difference?. Physics Teacher, 2001, 39, 293-296.	0.3	86
10	History and Evolution of Active Learning Spaces. New Directions for Teaching and Learning, 2014, 2014, 9-16.	0.4	65
11	Case study of the physics component of an integrated curriculum. American Journal of Physics, 1999, 67, S16-S24.	0.7	52
12	Impact of animation on assessment of conceptual understanding in physics. Physical Review Physics Education Research, 2006, 2, .	1.7	47
13	Enabling and challenging factors in institutional reform: The case of SCALE-UP. Physical Review Physics Education Research, 2016, 12, .	2.9	39
14	Oscillator damped by a constant-magnitude friction force. American Journal of Physics, 2004, 72, 477-483.	0.7	35
15	Education Research Using Web-Based Assessment Systems. Journal of Research on Technology in Education, 2000, 33, 28-45.	0.9	30
16	Get a room: the role of classroom space in sustained implementation of studio style instruction. International Journal of STEM Education, 2016, 3, .	5.0	30
17	Do they see it coming? Using expectancy violation to gauge the success of pedagogical reforms. Physical Review Physics Education Research, 2010, 6, .	1.7	28
18	Diffusion of research-based instructional strategies: the case of SCALE-UP. International Journal of STEM Education, 2014, 1, .	5.0	28

#	Article	IF	Citations
19	Modifying the test of understanding graphs in kinematics. Physical Review Physics Education Research, 2017, 13, .	2.9	28
20	Web-based testing in physics education: Methods and opportunities. Computers in Physics, 1998, 12, 117.	0.5	27
21	Can one lab make a difference?. American Journal of Physics, 2000, 68, S60-S61.	0.7	17
22	Labs for the Matter & Interactions curriculum. American Journal of Physics, 2010, 78, 456-460.	0.7	15
23	But Are They Learning? Getting Started in Classroom Evaluation. CBE: Life Sciences Education, 2002, 1, 87-94.	0.7	14
24	Instructional technology research and development in a US physics education group. European Journal of Engineering Education, 2006, 31, 383-393.	2.3	8
25	Exploring Magnetic Fields with a Compass. Physics Teacher, 2011, 49, 45-48.	0.3	6
26	Considering perception and cognition in the design of an instructional software package. Multimedia Tools and Applications, 1995, 1, 173-184.	3.9	5
27	Try, Try Again: The Power of Timing and Perseverance in Higher Education Reform. Change, 2019, 51, 50-57.	0.5	4
28	Hardware and software preferences. Physics Teacher, 1995, 33, 270-274.	0.3	3
29	Applications of Macintosh microcomputers in introductory physics. Physics Teacher, 1989, 27, 348-353.	0.3	2
30	Visualizing potential surfaces with a spreadsheet. Physics Teacher, 1997, 35, 95-97.	0.3	2
31	Publishing PER Articles in AJP and PRST-PER. American Journal of Physics, 2009, 77, 581-582.	0.7	2
32	Stick With It! Helping Students Understand Free-Body Diagrams â€“ A Magnet Activity as a Tool for Understanding. Physics Teacher, 2019, 57, 459-461.	0.3	2
33	Research-guided design of multimedia research tools. Computer Graphics, 1994, 28, 40-43.	0.1	2
34	SCALE-UP Implementation and Intra-Institutional Dissemination: A Case Study of Two Institutions. , 0, , .		2
35	Stars of the Big Dipper: A 3-D Vector Activity. Physics Teacher, 2006, 44, 168-172.	0.3	1
36	Editorial: Reflections on the Origins ofPhysical Review Special Topics â€“ Physics Education Research. Physical Review Physics Education Research, 2015, 11, .	1.7	1

#	Article	IF	Citations
37	Attitudes of Life Science Majors Towards Computational Modeling in Introductory Physics. , 0, , .		1
38	Examining the Diffusion of Research-Based Instructional Strategies Using Social Network Analysis: A Case Study of SCALE-UP. , 0, , .		1
39	Theory and experiment. Physics Teacher, 1993, 31, 519-519.	0.3	0
40	U.S. science education standards: Both good news & bad. AIP Conference Proceedings, 1997, , .	0.4	0
41	Rate of Change and Electric Potential. AIP Conference Proceedings, 2005, , .	0.4	0
42	Publishing And Refereeing Papers In Physics Education Research. , 2007, , .		0
43	The Real Prize Inside: Learning About Science and Spectra from Cereal Boxes. Physics Teacher, 2009, 47, 450-453.	0.3	0
44	Using Charge Distributions to â€œImmerseâ€•Your Classroom in an Electric Field. Physics Teacher, 2013, 51, 234-237.	0.3	0
45	2007 Distinguished Service Citations Awarded to Andria L. Erzberger, Robert Beichner, A. John Mallinckrodt, Deborah Rice, Paul Stokstad, David and Christine Vernier. Physics Teacher, 2007, 45, 202.	0.3	0