

Eric Brewe

List of Publications by Year in descending order

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68
papers

1,632
citations

331670

21
h-index

315739

38
g-index

73
all docs

73
docs citations

73
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the relationship between self-efficacy and retention in introductory physics. <i>Journal of Research in Science Teaching</i> , 2012, 49, 1096-1121.	3.3	135
2	Modeling instruction: Positive attitudinal shifts in introductory physics measured with CLASS. <i>Physical Review Physics Education Research</i> , 2009, 5, .	1.7	114
3	Toward equity through participation in Modeling Instruction in introductory university physics. <i>Physical Review Physics Education Research</i> , 2010, 6, .	1.7	109
4	Resource Letter RPS-1: Research in problem solving. <i>American Journal of Physics</i> , 2004, 72, 1147-1156.	0.7	106
5	Sexual harassment reported by undergraduate female physicists. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	75
6	The context dependence of physics identity: Examining the role of performance/competence, recognition, interest, and sense of belonging for lower and upper female physics undergraduates. <i>Journal of Research in Science Teaching</i> , 2020, 57, 1583-1607.	3.3	63
7	Energy as a substancelike quantity that flows: Theoretical considerations and pedagogical consequences. <i>Physical Review Physics Education Research</i> , 2011, 7, .	1.7	56
8	Talking and learning physics: Predicting future grades from network measures and Force Concept Inventory pretest scores. <i>Physical Review Physics Education Research</i> , 2013, 9, .	1.7	52
9	The Importance of High School Physics Teachers for Female Students' Physics Identity and Persistence. <i>Physics Teacher</i> , 2017, 55, 96-99.	0.3	51
10	Beyond performance metrics: Examining a decrease in students' physics self-efficacy through a social networks lens. <i>Physical Review Physics Education Research</i> , 2016, 12, .	2.9	51
11	Impact of equity models and statistical measures on interpretations of educational reform. <i>Physical Review Physics Education Research</i> , 2012, 8, .	1.7	48
12	Moving toward change: Institutionalizing reform through implementation of the Learning Assistant model and Open Source Tutorials. <i>Physical Review Physics Education Research</i> , 2011, 7, .	1.7	47
13	Investigating student communities with network analysis of interactions in a physics learning center. <i>Physical Review Physics Education Research</i> , 2012, 8, .	1.7	44
14	Students' network integration as a predictor of persistence in introductory physics courses. <i>Physical Review Physics Education Research</i> , 2017, 13, .	2.9	41
15	Extending positive CLASS results across multiple instructors and multiple classes of Modeling Instruction. <i>Physical Review Physics Education Research</i> , 2013, 9, .	1.7	38
16	Using module analysis for multiple choice responses: A new method applied to Force Concept Inventory data. <i>Physical Review Physics Education Research</i> , 2016, 12, .	2.9	35
17	Meta-analytic evidence for a core problem solving network across multiple representational domains. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 92, 318-337.	6.1	32
18	Impact of the second semester University Modeling Instruction course on students' representation choices. <i>Physical Review Physics Education Research</i> , 2017, 13, .	2.9	32

#	ARTICLE	IF	CITATIONS
19	Changing Participation Through Formation of Student Learning Communities. AIP Conference Proceedings, 2010, , .	0.4	26
20	Identifying events that impact self-efficacy in physics learning. Physical Review Physics Education Research, 2012, 8, .	1.7	26
21	Linking engagement and performance: The social network analysis perspective. Physical Review Physics Education Research, 2019, 15, .	2.9	25
22	Modelling instruction for university physics: examining the theory in practice. European Journal of Physics, 2018, 39, 054001.	0.6	23
23	Equity investigation of attitudinal shifts in introductory physics. Physical Review Physics Education Research, 2015, 11, .	1.7	22
24	Understanding the development of interest and self-efficacy in active-learning undergraduate physics courses. International Journal of Science Education, 2018, 40, 1587-1605.	1.9	21
25	Educational commitment and social networking: The power of informal networks. Physical Review Physics Education Research, 2018, 14, .	2.9	19
26	Expanded Markers of Success in Introductory University Physics. International Journal of Science Education, 2013, 35, 262-288.	1.9	18
27	Positive Impacts of Modeling Instruction on Self-Efficacy. , 2010, , .		17
28	From Vision to Change: Educational Initiatives and Research at the Intersection of Physics and Biology. CBE Life Sciences Education, 2013, 12, 117-119.	2.3	15
29	Network positions in active learning environments in physics. Physical Review Physics Education Research, 2020, 16, .	2.9	14
30	Characterizing active learning environments in physics using network analysis and classroom observations. Physical Review Physics Education Research, 2021, 17, .	2.9	12
31	Validation study of the Colorado Learning Attitudes about Science Survey at a Hispanic-serving institution. Physical Review Physics Education Research, 2009, 5, .	1.7	11
32	Toward University Modeling Instructionâ€™Biology: Adapting Curricular Frameworks from Physics to Biology. CBE Life Sciences Education, 2013, 12, 206-214.	2.3	11
33	Transitioning to online instruction: Strong ties and anxiety. Physical Review Physics Education Research, 2021, 17, .	2.9	10
34	Developing a physics expert identity in a biophysics research group. Physical Review Physics Education Research, 2015, 11, .	1.7	10
35	Toward a Neurobiological Basis for Understanding Learning in University Modeling Instruction Physics Courses. Frontiers in ICT, 2018, 5, .	3.6	9
36	Brain activity links performance in science reasoning with conceptual approach. Npj Science of Learning, 2019, 4, 20.	2.8	8

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37	Costs of success: Financial implications of implementation of active learning in introductory physics courses for students and administrators. <i>Physical Review Physics Education Research</i> , 2018, 14, .	2.9	7
38	Institutionalizing evidence-based STEM reform through faculty professional development and support structures. <i>International Journal of STEM Education</i> , 2022, 9, 36.	5.0	7
39	A Network Analysis of Domestic Violence Beliefs Among Young Adults in India. <i>Journal of Interpersonal Violence</i> , 2021, 36, NP12041-NP12066.	2.0	6
40	Editorial: Focused Collection: Gender in Physics. <i>Physical Review Physics Education Research</i> , 2016, 12, .	2.9	5
41	Power Boxes: New Representation for Analyzing DC Circuits. <i>Physics Teacher</i> , 2018, 56, 362-366.	0.3	4
42	Sex differences in brain correlates of STEM anxiety. <i>Npj Science of Learning</i> , 2019, 4, 18.	2.8	4
43	Productive faculty resources activated by curricular materials: An example of epistemological beliefs in University Modeling Instruction. <i>Physical Review Physics Education Research</i> , 2020, 16, .	2.9	4
44	Investigating Student Communities with Network Analysis of Interactions in a Physics Learning Center. , 2009, , .		3
45	Creating opportunities to influence self-efficacy through modeling instruction. , 2012, , .		3
46	Characterizing active learning environments in physics: network analysis of Peer Instruction classroom using ERGMs. , 0, , .		3
47	Modeling Success: Building Community for Reform. , 2007, , .		2
48	"Implicit action": Understanding discourse management in modeling instruction. , 2012, , .		2
49	Understanding Centrality: Investigating Student Outcomes within a Classroom Social Network. , 0, , .		2
50	Characterizing active learning environments in physics using latent profile analysis. <i>Physical Review Physics Education Research</i> , 2022, 18, .	2.9	2
51	CLASS Shifts in Modeling Instruction. , 2008, , .		1
52	An Exploratory Qualitative Study of the Proximal Goal Setting of Two Introductory Modeling Instruction Physics Students. , 2009, , .		1
53	Communicating scientific ideas: One element of physics expertise. , 2012, , .		1
54	Regression analysis exploring teacher impact on student FCI post scores. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	Cookies as agents for community membership. , 2013, , .		1
56	Multiple Representations and Epistemic Games in Introductory Physics Exam Solutions. , 0, , .		1
57	The impact of social integration on student persistence in introductory Modeling Instruction courses. , 0, , .		1
58	Network Analysis of Students' Representation Use in Problem Solving. , 0, , .		1
59	Impact of the FIU PhysTEC Reform of Introductory Physics Labs. , 2008, , .		0
60	Constructing a Model of Physics Expertise. , 2010, , .		0
61	Successes and constraints in the enactment of a reform. , 2012, , .		0
62	Instructional changes based on cogenerative physics reform. , 2013, , .		0
63	Cogenerative Physics Reform Through CMPL. , 0, , .		0
64	A Study of Informal Learning Communities: a Tale of Two Physics Courses. , 0, , .		0
65	Network centrality and student self-efficacy in an interactive introductory physics environment. , 0, , .		0
66	The Impacts of Modeling Physics in Upper-Level Courses: The Persistence of Males and Females. , 0, , .		0
67	The Impacts of Instructor and Student Gender on Student Performance in Introductory Modeling Instruction Courses. , 0, , .		0
68	Evaluation of a Summer Bridge Program Using Multivariate Matching. , 0, , .		0