

# Vashti Sawtelle

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

819  
citations

567281

15  
h-index

501196

28  
g-index

37  
all docs

37  
docs citations

37  
times ranked

492  
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	Toward equity through participation in Modeling Instruction in introductory university physics. <i>Physical Review Physics Education Research</i> , 2010, 6, .	1.7	109
3	NEXUS/Physics: An interdisciplinary repurposing of physics for biologists. <i>American Journal of Physics</i> , 2014, 82, 368-377.	0.7	71
4	A Framework for Analyzing Interdisciplinary Tasks: Implications for Student Learning and Curricular Design. <i>CBE Life Sciences Education</i> , 2013, 12, 187-205.	2.3	56
5	Impact of equity models and statistical measures on interpretations of educational reform. <i>Physical Review Physics Education Research</i> , 2012, 8, .	1.7	48
6	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
7	Chemical energy in an introductory physics course for the life sciences. <i>American Journal of Physics</i> , 2014, 82, 403-411.	0.7	32
8	Entropy and spontaneity in an introductory physics course for life science students. <i>American Journal of Physics</i> , 2014, 82, 394-402.	0.7	27
9	Identifying events that impact self-efficacy in physics learning. <i>Physical Review Physics Education Research</i> , 2012, 8, .	1.7	26
10	Resource Letter TTSM-1: Teaching Thermodynamics and Statistical Mechanics in Introductory Physics, Chemistry, and Biology. <i>American Journal of Physics</i> , 2015, 83, 5-21.	0.7	25
11	Modelling instruction for university physics: examining the theory in practice. <i>European Journal of Physics</i> , 2018, 39, 054001.	0.6	23
12	Teaching About Racial Equity in Introductory Physics Courses. <i>Physics Teacher</i> , 2017, 55, 328-333.	0.3	22
13	Ontological metaphors for negative energy in an interdisciplinary context. <i>Physical Review Physics Education Research</i> , 2014, 10, .	1.7	20
14	Leveraging a relationship with biology to expand a relationship with physics. <i>Physical Review Physics Education Research</i> , 2016, 12, .	2.9	20
15	Positive Impacts of Modeling Instruction on Self-Efficacy. , 2010, , .		17
16	Students' reasoning about "high-energy bonds" and ATP: A vision of interdisciplinary education. <i>Physical Review Physics Education Research</i> , 2014, 10, .	1.7	17
17	Epistemological progress in physics and its impact on biology. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	14
18	Operationalizing relevance in physics education: Using a systems view to expand our conception of making physics relevant. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	13

#	ARTICLE	IF	CITATIONS
19	Developing an Analytical Framework to Characterize Student Reasoning about Complex Processes. CBE Life Sciences Education, 2018, 17, ar49.	2.3	12
20	Gender & Self-Efficacy: A Call to Physics Educators. Physics Teacher, 2020, 58, 345-348.	0.3	12
21	Bridging the gaps: How students seek disciplinary coherence in introductory physics for life science. Physical Review Physics Education Research, 2019, 15, .	2.9	12
22	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
23	Exploring mindset™s applicability to students™ experiences with challenge in transformed college physics courses. Physical Review Physics Education Research, 2019, 15, .	2.9	11
24	Students' interdisciplinary reasoning about "high-energy bonds" and ATP. AIP Conference Proceedings, 2013, , .	0.4	10
25	Toward a Neurobiological Basis for Understanding Learning in University Modeling Instruction Physics Courses. Frontiers in ICT, 2018, 5, .	3.6	9
26	Real-time Visualization of Equipotential Lines Using the IOLab. Physics Teacher, 2018, 56, 512-514.	0.3	5
27	Editorial: Focused Collection: Gender in Physics. Physical Review Physics Education Research, 2016, 12, .	2.9	5
28	Productive faculty resources activated by curricular materials: An example of epistemological beliefs in University Modeling Instruction. Physical Review Physics Education Research, 2020, 16, .	2.9	4
29	Creating opportunities to influence self-efficacy through modeling instruction. , 2012, , .		3
30	Students' reasoning about interdisciplinarity. , 2013, , .		3
31	The role physics can play in a multi-disciplinary curriculum for non-physics scientists and engineers. European Journal of Science and Mathematics Education, 2014, 2, 1-13.	1.1	2
32	An Exploratory Qualitative Study of the Proximal Goal Setting of Two Introductory Modeling Instruction Physics Students. , 2009, , .		1
33	Effects of mesh voids on insertion loss of metallic mesh coatings. , 2007, , .		0
34	Examining the positioning of ideas in the disciplines. , 2013, , .		0
35	"Learning Arc": The process of resolving concerns through student-student discourse. , 2013, , .		0
36	Implementing a mixed-methods approach to understand students™ self-efficacy: A pilot study. , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	An Investigation of Degree Pathways for Students of Color with Transfer Credits. , 0, , .		0