

Justyna P Zwolak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3490071/publications.pdf>

Version: 2024-02-01

28
papers

456
citations

840776

11
h-index

794594

19
g-index

28
all docs

28
docs citations

28
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of Frustration-Free Hamiltonians. <i>Communications in Mathematical Physics</i> , 2013, 322, 277-302.	2.2	109
2	Machine learning techniques for state recognition and auto-tuning in quantum dots. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	53
3	Beyond performance metrics: Examining a decrease in studentsâ€™ physics self-efficacy through a social networks lens. <i>Physical Review Physics Education Research</i> , 2016, 12, .	2.9	51
4	Studentsâ€™ network integration as a predictor of persistence in introductory physics courses. <i>Physical Review Physics Education Research</i> , 2017, 13, .	2.9	41
5	Autotuning of Double-Dot Devices <i>in Situ</i> with Machine Learning. <i>Physical Review Applied</i> , 2020, 13, .	3.8	38
6	Linking engagement and performance: The social network analysis perspective. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	25
7	Understanding the development of interest and self-efficacy in active-learning undergraduate physics courses. <i>International Journal of Science Education</i> , 2018, 40, 1587-1605.	1.9	21
8	Educational commitment and social networking: The power of informal networks. <i>Physical Review Physics Education Research</i> , 2018, 14, .	2.9	19
9	QFlow lite dataset: A machine-learning approach to the charge states in quantum dot experiments. <i>PLoS ONE</i> , 2018, 13, e0205844.	2.5	17
10	Practitionerâ€™s guide to social network analysis: Examining physics anxiety in an active-learning setting. <i>Physical Review Physics Education Research</i> , 2019, 15, .	2.9	14
11	Machine-learning enhanced dark soliton detection in Boseâ€“Einstein condensates. <i>Machine Learning: Science and Technology</i> , 2021, 2, 035020.	5.0	13
12	Toward Robust Autotuning of Noisy Quantum dot Devices. <i>Physical Review Applied</i> , 2022, 17, .	3.8	11
13	Ray-Based Framework for State Identification in Quantum Dot Devices. <i>PRX Quantum</i> , 2021, 2, .	9.2	9
14	Assessing student reasoning in upper-division electricity and magnetism at Oregon State University. <i>Physical Review Physics Education Research</i> , 2015, 11, .	1.7	9
15	New Tools for Investigating Positive Maps in Matrix Algebras. <i>Reports on Mathematical Physics</i> , 2013, 71, 163-175.	0.8	7
16	Recurrent construction of optimal entanglement witnesses for 2N-qubit systems. <i>Physical Review A</i> , 2014, 89, .	2.5	5
17	Theoretical Bounds on Data Requirements for the Ray-Based Classification. <i>SN Computer Science</i> , 2022, 3, 1.	3.6	3
18	Combining machine learning with physics: A framework for tracking and sorting multiple dark solitons. <i>Physical Review Research</i> , 2022, 4, .	3.6	3

#	ARTICLE	IF	CITATIONS
19	Understanding Centrality: Investigating Student Outcomes within a Classroom Social Network. , 0, , .		2
20	Re-thinking the Rubric for Grading the CUE: The Superposition Principle. , 0, , .		1
21	Revealing Differences Between Curricula Using the Colorado Upper-Division Electrostatics Diagnostic. , 0, , .		1
22	Student difficulties with complex numbers. , 0, , .		1
23	The impact of social integration on student persistence in introductory Modeling Instruction courses. , 0, , .		1
24	Physics Major Engagement and Persistence: A Phenomenography Interview Study. , 0, , .		1
25	Isolating approaches: How middle-division physics students coordinate forms and representations in complex algebra. Physical Review Physics Education Research, 2019, 15, .	2.9	1
26	Using Social Network Analysis on classroom video data. , 0, , .		0
27	Student perceptions of the value of out-of-class interactions: Attitudes vs. Practice. , 0, , .		0
28	Studying Community Development: A Network Analytical Approach. , 0, , .		0