Daniel Schumayer

List of Publications by Year
in descending order

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31 papers	402 citations	840776 11 h-index	752698 20 g-index
32 all docs	32 docs citations	32 times ranked	330 citing authors

#	Article	IF	Citations
1	Colloquium: Physics of the Riemann hypothesis. Reviews of Modern Physics, 2011, 83, 307-330.	45.6	84
2	Exploratory factor analysis of a Force Concept Inventory data set. Physical Review Physics Education Research, 2012, 8, .	1.7	65
3	Studentsâ€™ proficiency scores within multitrait item response theory. Physical Review Physics Education Research, 2015, 11, .	1.7	37
4	Observation of two-dimensional Anderson localisation of ultracold atoms. Nature Communications, 2020, 11, 4942.	12.8	32
5	Stability of static solitonic excitations of two-component Bose-Einstein condensates in finite range of interspecies scattering lengtha12. Physical Review A, 2004, 69, .	2.5	25
6	Quantum mechanical potentials related to the prime numbers and Riemann zeros. Physical Review E, 2008, 78, 056215.	2.1	23
7	Conceptual coherence of non-Newtonian worldviews in Force Concept Inventory data. Physical Review Physics Education Research, 2017, 13, .	2.9	19
8	Effect of scattering lengths on the dynamics of a two-component Bose-Einstein condensate. Physical Review A, 2010, 82, .	2.5	18
9	Central distractors in Force Concept Inventory data. Physical Review Physics Education Research, 2018, 14, .	2.9	12
10	PainlevÃ© test of coupled Gross-Pitaevskii equations. Journal of Physics A, 2001, 34, 4969-4981.	1.6	11
11	Correlation of pressure and displacement during gingival displacement: An inÂvitro study. Journal of Prosthetic Dentistry, 2016, 115, 296-300.	2.8	11
12	Relation between optical and atomic solitons. Physical Review A, 2002, 65, .	2.5	10
13	Geometric scaling in the spectrum of an electron captured by a stationary finite dipole. Europhysics Letters, 2010, 89, 13001.	2.0	6
14	Environment mediated multipartite and multidimensional entanglement. Scientific Reports, 2019, 9, 9147.	3.3	6
15	Observations of the Size Distribution of Frazil Ice in an Ice Shelf Water Plume. Geophysical Research Letters, 2020, 47, e2020GL090498.	4.0	6
16	Thermodynamically activated vortex-dipole formation in a two-dimensional Bose-Einstein condensate. Physical Review A, 2007, 75, .	2.5	5
17	Improving Real-Time Position Estimation Using Correlated Noise Models. Sensors, 2020, 20, 5913.	3.8	5
18	Comparison of Enhanced Noise Model Performance Based on Analysis of Civilian GPS Data. Sensors, 2020, 20, 6050.	3.8	5

#	Article	IF	Citations
19	Peculiarities in the gravitational field of a filamentary ring. American Journal of Physics, 2019, 87, 384-394.	0.7	4
20	Universal nomogram for the atomtronic quantum rotation sensor. Physical Review A, 2021, 103, .	2.5	4
21	Publisherâ€™s Note:Colloquium: Physics of the Riemann hypothesis [Rev. Mod. Phys.83, 307 (2011)]. Reviews of Modern Physics, 2011, 83, 769-769.	45.6	3
22	Rotons in Interacting Ultracold Bose Gases. Physical Review Letters, 2011, 107, 140401.	7.8	3
23	Quantum chaos in one dimension?. Physical Review E, 2011, 84, 016230.	2.1	2
24	Thermal stability of a quantum rotation sensor. Physical Review A, 2021, 104, .	2.5	2
25	Effects of disorder upon transport and Anderson localization in a finite, two-dimensional Bose gas. Physical Review A, 2021, 104, .	2.5	2
26	Interatomic-potential inversion from ultracold Bose-gas collision. Nuclear Physics A, 2007, 790, 767c-770c.	1.5	1
27	An oblate spheroidal model for multi-frequency acoustic back-scattering of frazil ice. Cold Regions Science and Technology, 2020, 177, 103122.	3.5	1
28	Heat conduction in multi-layer circuit elements. , 2015, , .		0
29	Network analysis of misconceptions in FCI data. AIP Conference Proceedings, 2021, , .	0.4	0
30	No cleverness â€“ just greatness. Journal of the Royal Society of New Zealand, 2021, 51, 409-414.	1.9	0
31	Re-Opening after COVID-19 in New Zealand. Journal of Conservation & Museum Studies, 2020, 18, .	0.8	0