

Augusto Smerzi

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,949
citations

516710

16
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

1915
citing authors

#	ARTICLE	IF	CITATIONS
1	Peaceful coexistence of thermal equilibrium and the emergence of time. <i>Physical Review D</i> , 2022, 105, .	4.7	6
2	Improved absolute clock stability by the joint interrogation of two atomic ensembles. <i>Physical Review A</i> , 2022, 105, .	2.5	3
3	Metrological Detection of Multipartite Entanglement from Young Diagrams. <i>Physical Review Letters</i> , 2021, 126, 080502.	7.8	30
4	Nonlinear Bragg interferometer with a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2021, 103, .	2.5	4
5	Frequentist parameter estimation with supervised learning. <i>AVS Quantum Science</i> , 2021, 3, .	4.9	3
6	Quantum Simulating the Electron Transport in Quantum Cascade Laser Structures. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100044.	3.9	4
7	Genuine Multipartite Nonlocality with Causal-Diagram Postselection. <i>Physical Review Letters</i> , 2021, 127, 140401.	7.8	7
8	Quantum Phase Estimation Algorithm with Gaussian Spin States. <i>PRX Quantum</i> , 2021, 2, .	9.2	17
9	Delta-Kick Squeezing. <i>Physical Review Letters</i> , 2021, 127, 183401.	7.8	11
10	Heisenberg-Limited Noisy Atomic Clock Using a Hybrid Coherent and Squeezed State Protocol. <i>Physical Review Letters</i> , 2020, 125, 210503.	7.8	23
11	Metrological Nonlinear Squeezing Parameter. <i>Physical Review Letters</i> , 2019, 122, 090503.	7.8	54
12	Sensitivity bounds for interferometry with Ising Hamiltonians. <i>Physical Review A</i> , 2019, 99, .	2.5	4
13	Characterizing the multipartite continuous-variable entanglement structure from squeezing coefficients and the Fisher information. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	25
14	Phase magnification by two-axis countertwisting for detection-noise robust interferometry. <i>Physical Review A</i> , 2018, 97, .	2.5	33
15	Sensitivity Bounds for Multiparameter Quantum Metrology. <i>Physical Review Letters</i> , 2018, 121, 130503.	7.8	98
16	Frequentist and Bayesian Quantum Phase Estimation. <i>Entropy</i> , 2018, 20, 628.	2.2	40
17	Quantum metrology with nonclassical states of atomic ensembles. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	852
18	Multipartite Entanglement in Topological Quantum Phases. <i>Physical Review Letters</i> , 2017, 119, 250401.	7.8	79

#	ARTICLE	IF	CITATIONS
19	Witnessing entanglement without entanglement witness operators. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11459-11464.	7.1	41
20	Efficient entanglement criteria for discrete, continuous, and hybrid variables. Physical Review A, 2016, 94, .	2.5	47
21	Loschmidt echo for quantum metrology. Physical Review A, 2016, 94, .	2.5	100
22	Fisher information and entanglement of non-Gaussian spin states. Science, 2014, 345, 424-427.	12.6	314
23	Fisher information and multiparticle entanglement. Physical Review A, 2012, 85, .	2.5	376
24	Useful Multiparticle Entanglement and Sub-Shot-Noise Sensitivity in Experimental Phase Estimation. Physical Review Letters, 2011, 107, 080504.	7.8	95
25	Entanglement, Nonlinear Dynamics, and the Heisenberg Limit. Physical Review Letters, 2009, 102, 100401.	7.8	654
26	Entanglement and squeezing in continuous-variable systems. Quantum - the Open Journal for Quantum Science, 0, 1, 17.	0.0	17
27	Time Observables in a Timeless Universe. Quantum - the Open Journal for Quantum Science, 0, 4, 354.	0.0	12