

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	Quantum metrology with nonclassical states of atomic ensembles. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	852
2	Entanglement, Nonlinear Dynamics, and the Heisenberg Limit. <i>Physical Review Letters</i> , 2009, 102, 100401.	7.8	654
3	Fisher information and multiparticle entanglement. <i>Physical Review A</i> , 2012, 85, .	2.5	376
4	Fisher information and entanglement of non-Gaussian spin states. <i>Science</i> , 2014, 345, 424-427.	12.6	314
5	Loschmidt echo for quantum metrology. <i>Physical Review A</i> , 2016, 94, .	2.5	100
6	Sensitivity Bounds for Multiparameter Quantum Metrology. <i>Physical Review Letters</i> , 2018, 121, 130503.	7.8	98
7	Useful Multiparticle Entanglement and Sub-Shot-Noise Sensitivity in Experimental Phase Estimation. <i>Physical Review Letters</i> , 2011, 107, 080504.	7.8	95
8	Multipartite Entanglement in Topological Quantum Phases. <i>Physical Review Letters</i> , 2017, 119, 250401.	7.8	79
9	Metrological Nonlinear Squeezing Parameter. <i>Physical Review Letters</i> , 2019, 122, 090503.	7.8	54
10	Efficient entanglement criteria for discrete, continuous, and hybrid variables. <i>Physical Review A</i> , 2016, 94, .	2.5	47
11	Witnessing entanglement without entanglement witness operators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11459-11464.	7.1	41
12	Frequentist and Bayesian Quantum Phase Estimation. <i>Entropy</i> , 2018, 20, 628.	2.2	40
13	Phase magnification by two-axis countertwisting for detection-noise robust interferometry. <i>Physical Review A</i> , 2018, 97, .	2.5	33
14	Metrological Detection of Multipartite Entanglement from Young Diagrams. <i>Physical Review Letters</i> , 2021, 126, 080502.	7.8	30
15	Characterizing the multipartite continuous-variable entanglement structure from squeezing coefficients and the Fisher information. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	25
16	Heisenberg-Limited Noisy Atomic Clock Using a Hybrid Coherent and Squeezed State Protocol. <i>Physical Review Letters</i> , 2020, 125, 210503.	7.8	23
17	Quantum Phase Estimation Algorithm with Gaussian Spin States. <i>PRX Quantum</i> , 2021, 2, .	9.2	17
18	Entanglement and squeezing in continuous-variable systems. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 1, 17.	0.0	17

#	ARTICLE	IF	CITATIONS
19	Time Observables in a Timeless Universe. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 354.	0.0	12
20	Delta-Kick Squeezing. <i>Physical Review Letters</i> , 2021, 127, 183401.	7.8	11
21	Genuine Multipartite Nonlocality with Causal-Diagram Postselection. <i>Physical Review Letters</i> , 2021, 127, 140401.	7.8	7
22	Peaceful coexistence of thermal equilibrium and the emergence of time. <i>Physical Review D</i> , 2022, 105, .	4.7	6
23	Sensitivity bounds for interferometry with Ising Hamiltonians. <i>Physical Review A</i> , 2019, 99, .	2.5	4
24	Nonlinear Bragg interferometer with a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2021, 103, .	2.5	4
25	Quantum Simulating the Electron Transport in Quantum Cascade Laser Structures. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100044.	3.9	4
26	Frequentist parameter estimation with supervised learning. <i>AVS Quantum Science</i> , 2021, 3, .	4.9	3
27	Improved absolute clock stability by the joint interrogation of two atomic ensembles. <i>Physical Review A</i> , 2022, 105, .	2.5	3