

Benni Reznik

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,858
citations

279701

23
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39
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42
all docs

42
docs citations

42
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum simulations of lattice gauge theories using ultracold atoms in optical lattices. Reports on Progress in Physics, 2016, 79, 014401.	8.1	301
2	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	0.6	272
3	Revisiting Hardy's paradox: counterfactual statements, real measurements, entanglement and weak values. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 130-138.	0.9	241
4	Entanglement from the Vacuum. Foundations of Physics, 2003, 33, 167-176.	0.6	221
5	Violating Bell's inequalities in vacuum. Physical Review A, 2005, 71, .	1.0	216
6	Cold-Atom Quantum Simulator for SU(2) Yang-Mills Lattice Gauge Theory. Physical Review Letters, 2013, 110, 125304.	2.9	185
7	Simulating Compact Quantum Electrodynamics with Ultracold Atoms: Probing Confinement and Nonperturbative Effects. Physical Review Letters, 2012, 109, 125302.	2.9	184
8	Quantum simulations of gauge theories with ultracold atoms: Local gauge invariance from angular-momentum conservation. Physical Review A, 2013, 88, .	1.0	148
9	Confinement and Lattice Quantum-Electrodynamics Electric Flux Tubes Simulated with Ultracold Atoms. Physical Review Letters, 2011, 107, 275301.	2.9	122
10	Spatial structures and localization of vacuum entanglement in the linear harmonic chain. Physical Review A, 2004, 70, .	1.0	108
11	Simulating T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td Lattice QED with Dynamical Matter Using Ultracold Atoms. Physical Review Letters, 2013, 110, 055302.	2.9	98
12	Digital lattice gauge theories. Physical Review A, 2017, 95, .	1.0	90
13	Digital Quantum Simulation of Z_2 Lattice Gauge Theories with Dynamical Fermionic Matter. Physical Review Letters, 2017, 118, 070501.	2.9	81
14	Modewise entanglement of Gaussian states. Physical Review A, 2003, 67, .	1.0	73
15	Superoscillations and tunneling times. Physical Review A, 2002, 65, .	1.0	68
16	Deterministic dense coding with partially entangled states. Physical Review A, 2005, 71, .	1.0	61
17	Remote operations and interactions for systems of arbitrary-dimensional Hilbert space: State-operator approach. Physical Review A, 2002, 65, .	1.0	51
18	Weighing a Closed System and the Time-Energy Uncertainty Principle. Physical Review Letters, 2000, 84, 1368-1370.	2.9	39

#	ARTICLE	IF	CITATIONS
19	Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. Physical Review Letters, 1994, 73, 918-921.	2.9	36
20	BCS-like modewise entanglement of fermion Gaussian states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 331, 39-44.	0.9	35
21	Measurements of semilocal and nonmaximally entangled states. Physical Review A, 2002, 66, .	1.0	30
22	Implementing nonlocal gates with nonmaximally entangled states. Physical Review A, 2005, 71, .	1.0	30
23	Entanglement and the speed of evolution in mixed states. Physical Review A, 2008, 78, .	1.0	27
24	Superluminal tunnelling times as weak values. Journal of Modern Optics, 2003, 50, 1139-1149.	0.6	23
25	How macroscopic properties dictate microscopic probabilities. Physical Review A, 2002, 65, .	1.0	19
26	Topological Wilson-loop area law manifested using a superposition of loops. New Journal of Physics, 2013, 15, 043041.	1.2	16
27	Quantum-communication protocol employing weak measurements. Physical Review A, 2000, 61, .	1.0	15
28	Correcting quantum errors with the Zeno effect. Physical Review A, 2004, 69, .	1.0	15
29	Many-region vacuum entanglement: Distilling aWstate. Physical Review A, 2005, 71, .	1.0	14
30	Complementarity between Local and Nonlocal Topological Effects. Physical Review Letters, 2000, 84, 4790-4793.	2.9	11
31	Superoscillations underlying remote state preparation for relativistic fields. Physical Review A, 2015, 91, .	1.0	7
32	Aharonov and Reznik Reply:. Physical Review Letters, 2002, 89, .	2.9	6
33	Classical Analog to Topological Nonlocal Quantum Interference Effects. Physical Review Letters, 2004, 92, 020401.	2.9	4
34	Instantaneous measurements of nonlocal variables. Journal of Modern Optics, 2003, 50, 943-949.	0.6	3
35	Combined electric and magnetic Aharonov-Bohm effects. American Journal of Physics, 2007, 75, 1141-1146.	0.3	2
36	Continuous input nonlocal games. Natural Computing, 2013, 12, 5-8.	1.8	2

#	ARTICLE	IF	CITATIONS
37	A lower bound on ground state entanglement between two regions for a free field. Journal of Modern Optics, 2004, 51, 833-840.	0.6	2
38	A lower bound on ground state entanglement between two regions for a free field. Journal of Modern Optics, 2004, 51, 833-840.	0.6	1
39	Instantaneous measurements of nonlocal variables. Journal of Modern Optics, 2003, 50, 943-949.	0.6	1
40	Interplay of Aharonov-Bohm and Berry Phases for a Quantum Cloud of Charge. Annals of the New York Academy of Sciences, 1995, 755, 882-887.	1.8	0
41	Charged particles in an external field: A QED analog with Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	0
42	Entanglement on curved hypersurfaces: A field-discretizer approach. Physical Review D, 2021, 103, .	1.6	0