

Bing He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5826608/publications.pdf>

Version: 2024-02-01

62
papers

1,940
citations

257101

24
h-index

253896

43
g-index

62
all docs

62
docs citations

62
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Parity-Time Symmetry in Optically Induced Atomic Lattices. Physical Review Letters, 2016, 117, 123601.	2.9	250
2	Single-photon logic gates using minimal resources. Physical Review A, 2009, 80, .	1.0	120
3	Cross-Kerr nonlinearity between continuous-mode coherent states and single photons. Physical Review A, 2011, 83, .	1.0	104
4	Two-Photon Dynamics in Coherent Rydberg Atomic Ensemble. Physical Review Letters, 2014, 112, 133606.	2.9	101
5	Creation of high-quality long-distance entanglement with flexible resources. Physical Review A, 2009, 79, .	1.0	93
6	Quantum repeaters based on Rydberg-blockade-coupled atomic ensembles. Physical Review A, 2010, 81, .	1.0	74
7	Scheme for generating coherent-state superpositions with realistic cross-Kerr nonlinearity. Physical Review A, 2009, 79, .	1.0	73
8	Processing multiphoton states through operation on a single photon: Methods and applications. Physical Review A, 2009, 80, .	1.0	67
9	Dynamical phonon laser in coupled active-passive microresonators. Physical Review A, 2016, 94, .	1.0	60
10	Continuous-mode effects and photon-photon phase gate performance. Physical Review A, 2012, 85, .	1.0	57
11	Transverse multimode effects on the performance of photon-photon gates. Physical Review A, 2011, 83, .	1.0	50
12	Quantum optomechanics beyond linearization. Physical Review A, 2012, 85, .	1.0	48
13	Quantum noise effects with Kerr-nonlinearity enhancement in coupled gain-loss waveguides. Physical Review A, 2015, 91, .	1.0	48
14	Transmission Nonreciprocity in a Mutually Coupled Circulating Structure. Physical Review Letters, 2018, 120, 203904.	2.9	48
15	Radiation Pressure Cooling as a Quantum Dynamical Process. Physical Review Letters, 2017, 118, 233604.	2.9	45
16	Efficient generation of universal two-dimensional cluster states with hybrid systems. Physical Review A, 2010, 82, .	1.0	43
17	Universal entangler with photon pairs in arbitrary states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 025502.	0.6	43
18	Highly Efficient Processing of Multi-photon States. Scientific Reports, 2015, 5, 12792.	1.6	40

#	ARTICLE	IF	CITATIONS
19	Entangling Two Macroscopic Mechanical Resonators at High Temperature. <i>Physical Review Applied</i> , 2020, 13, .	1.5	31
20	Universal discriminator for completely unknown optical qubits. <i>Physical Review A</i> , 2007, 76, .	1.0	30
21	Implementation of quantum operations on single-photon qubits. <i>Physical Review A</i> , 2007, 76, .	1.0	28
22	Cyclic permutation-time symmetric structure with coupled gain-loss microcavities. <i>Physical Review A</i> , 2015, 91, .	1.0	26
23	Fully quantum approach to optomechanical entanglement. <i>Physical Review A</i> , 2014, 90, .	1.0	25
24	Entanglement dynamics in double-cavity optomechanical systems. <i>Optics Express</i> , 2017, 25, 17237.	1.7	25
25	Mass sensing by detecting the quadrature of a coupled light field. <i>Physical Review A</i> , 2017, 96, .	1.0	23
26	Quantum information measures of infinite spherical well. <i>Modern Physics Letters A</i> , 2018, 33, 1850088.	0.5	23
27	Bi-directional mapping between polarization and spatially encoded photonic qubits. <i>Physical Review A</i> , 2009, 80, .	1.0	21
28	A general approach to physical realization of unambiguous quantum-state discrimination. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 356, 306-311.	0.9	20
29	Programmable unknown quantum-state discriminators with multiple copies of program and data: A Jordan-basis approach. <i>Physical Review A</i> , 2007, 75, .	1.0	20
30	Breaking the optomechanical cooling limit by two drive fields on a membrane-in-the-middle system. <i>Physical Review A</i> , 2019, 99, .	1.0	20
31	Alternative perspective on photonic tunneling. <i>Physical Review A</i> , 2007, 75, .	1.0	19
32	Optomechanical entanglement under pulse drive. <i>Optics Express</i> , 2015, 23, 24497.	1.7	19
33	Photon-Photon Gates in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2011, 107, 043601.	2.9	18
34	Weaving independently generated photons into an arbitrary graph state. <i>Physical Review A</i> , 2011, 84, .	1.0	18
35	Continuous-variable entanglement generation using a hybrid PT -symmetric system. <i>Physical Review A</i> , 2017, 96, .	1.0	18
36	PT-symmetric phonon laser under gain saturation effect. <i>Optics Express</i> , 2020, 28, 22580.	1.7	17

#	ARTICLE	IF	CITATIONS
37	Unambiguous discriminator for unknown quantum states: An implementation. Physical Review A, 2007, 75, .	1.0	16
38	Entanglement transformation with no classical communication. Physical Review A, 2008, 78, .	1.0	14
39	Interacting photon pulses in a Rydberg medium. Optica, 2016, 3, 1095.	4.8	14
40	A generalized programmable unambiguous state discriminator for unknown qubit systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 103-109.	0.9	13
41	Addendum to "Single-photon logic gates using minimum resources", Physical Review A, 2010, 82, .	1.0	13
42	Highly efficient cooling of mechanical resonator with square pulse drives. Optics Express, 2018, 26, 33830.	1.7	11
43	Magnomechanical phonon laser beyond the steady state. Physical Review A, 2021, 104, .	1.0	10
44	Generation of arbitrary symmetric entangled states with conditional linear optical coupling. Physical Review A, 2013, 87, .	1.0	9
45	Effects of gain saturation on the quantum properties of light in a non-Hermitian gain-loss coupler. Physical Review A, 2019, 99, .	1.0	8
46	Calculation of temperature-dependent hadronic correlation functions of pseudoscalar and vector currents. Physical Review D, 2003, 67, .	1.6	7
47	Ultra-high optical nonreciprocity with a coupled triple-resonator structure. New Journal of Physics, 2021, 23, 023010.	1.2	7
48	Catastrophic transition between dynamical patterns in a phonon laser. Physical Review Research, 2021, 3, .	1.3	7
49	Coherent-states engineering with linear optics: Possible and impossible tasks. Physical Review A, 2008, 77, .	1.0	6
50	Mechanical oscillations frozen on discrete levels by two optical driving fields. Physical Review A, 2020, 102, .	1.0	6
51	Comparison of temperature-dependent hadronic current correlation functions calculated in lattice simulations of QCD and with a chiral Lagrangian model. Physical Review C, 2003, 67, .	1.1	5
52	Efficient graph state generation and operation error detection with a controlled-path gate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 055502.	0.6	5
53	Amplitude and phase locking of mechanical oscillation driven by radiation pressure. Physical Review A, 2022, 105, .	1.0	5
54	Superluminal propagation of evanescent modes as a quantum effect. Annalen Der Physik, 2008, 17, 319-325.	0.9	4

#	ARTICLE	IF	CITATIONS
55	Ultra-high resolution mass sensing based on an optomechanical nonlinearity. Optics Express, 2022, 30, 15858.	1.7	4
56	Calculation of the pseudoscalar-isoscalar hadronic current correlation functions of the quark-gluon plasma. Physical Review D, 2003, 67, .	1.6	3
57	Efficient ground state cooling of a membrane by the combination of continuous-wave field and pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 095502.	0.6	3
58	Arrival time in quantum field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 382-385.	1.5	2
59	Quantum properties of parametric four-wave mixing in a Raman-type atomic system. Physical Review A, 2017, 95, .	1.0	1
60	Storage and retrieval of interacting photons in a Rydberg medium. Physical Review A, 2019, 99, .	1.0	1
61	Cooling Effect and Cooling Speed for a Membrane-in-Middle Optomechanical System. Photonics, 2022, 9, 400.	0.9	1
62	Coherent States Engineering with Linear Optics. , 2008, , .		0