Yong Li

List of Publications by Year in descending order

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119 papers	3,708 citations	147801 31 h-index	155660 55 g-index
121 all docs	121 docs citations	121 times ranked	1429 citing authors

#	Article	IF	Citations
1	Quantum Routing of Single Photons with a Cyclic Three-Level System. Physical Review Letters, 2013, 111, 103604.	7.8	229
2	Precision measurement of electrical charge with optomechanically induced transparency. Physical Review A, 2012, 86, .	2.5	203
3	Electromagnetically-induced-transparency-like ground-state cooling in a double-cavity optomechanical system. Physical Review A, 2014, 90, .	2.5	149
4	Optical nonreciprocity and optomechanical circulator in three-mode optomechanical systems. Physical Review A, 2015, 91, .	2.5	147
5	Mechanical<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>symmetry in coupled optomechanical systems. Physical Review A, 2015, 92, .	2.5	120
6	Fast ground-state cooling of mechanical resonators with time-dependent optical cavities. Physical Review A, 2011, 83, .	2.5	113
7	Generalized Stern-Gerlach Effect for Chiral Molecules. Physical Review Letters, 2007, 99, 130403.	7.8	112
8	Nonreciprocal conversion between microwave and optical photons in electro-optomechanical systems. Physical Review A, 2016, 93, .	2.5	103
9	Quantum anti-Zeno effect without rotating wave approximation. Physical Review A, 2010, 81, .	2.5	89
10	Phase-dependent optical response properties in an optomechanical system by coherently driving the mechanical resonator. Physical Review A, 2015, 91, .	2.5	85
11	Tunable photon statistics in weakly nonlinear photonic molecules. Physical Review A, 2014, 90, .	2.5	76
12	Strong photon antibunching of symmetric and antisymmetric modes in weakly nonlinear photonic molecules. Physical Review A, 2014, 90, .	2.5	76
13	Targeted photonic routers with chiral photon-atom interactions. Physical Review A, 2018, 97, .	2.5	66
14	Controllable single-photon frequency converter via a one-dimensional waveguide. Physical Review A, 2014, 89, .	2.5	63
15	Optical directional amplification in a three-mode optomechanical system. Optics Express, 2017, 25, 18907.	3.4	61
16	Dynamic method to distinguish between left- and right-handed chiral molecules. Physical Review A, 2008, 77, .	2.5	56
17	Nondeterministic ultrafast ground-state cooling of a mechanical resonator. Physical Review B, 2011, 84, .	3.2	55
18	Quantum theory of transmission line resonator-assisted cooling of a micromechanical resonator. Physical Review B, 2008, 78, .	3.2	54

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19	Controllable optical output fields from an optomechanical system with mechanical driving. Physical Review A, 2015, 92, .	2.5	54
20	Directional amplifier in an optomechanical system with optical gain. Physical Review A, 2018, 97, .	2.5	48
21	Nonreciprocity via Nonlinearity and Synthetic Magnetism. Physical Review Applied, 2020, 13, .	3.8	42
22	Generation of stable entanglement between two cavity mirrors by squeezed-reservoir engineering. Physical Review A, 2015, 92, .	2.5	40
23	Detecting macroscopic quantum coherence with a cavity optomechanical system. Physical Review A, 2016, 94, .	2.5	40
24	Optomechanically induced nonreciprocity in a three-mode optomechanical system. Physical Review A, 2018, 98, .	2.5	38
25	Real single-loop cyclic three-level configuration of chiral molecules. Physical Review A, 2018, 98, .	2.5	38
26	Single-photon scattering on a strongly dressed atom. Physical Review A, 2012, 86, .	2.5	36
27	Giant Atoms in a Synthetic Frequency Dimension. Physical Review Letters, 2022, 128, .	7.8	36
28	Tunable optical nonreciprocity and a phonon-photon router in an optomechanical system with coupled mechanical and optical modes. Physical Review A, 2018, 97, .	2.5	33
29	Strongly correlated two-photon transport in a one-dimensional waveguide coupled to a weakly nonlinear cavity. Physical Review A, 2014, 90, .	2.5	32
30	Optomechanically induced amplification and perfect transparency in double-cavity optomechanics. Frontiers of Physics, 2015, 10, 351-357.	5.0	32
31	Optomechanical transistor with mechanical gain. Physical Review A, 2018, 97, .	2.5	32
32	Twofold mechanical squeezing in a cavity optomechanical system. Physical Review A, 2018, 98, .	2.5	32
33	Quantum criticality in a generalized Dicke model. Physical Review A, 2006, 74, .	2.5	31
34	Single-photon nonreciprocal transport in one-dimensional coupled-resonator waveguides. Physical Review A, 2017, 95, .	2.5	31
35	Duality and bistability in an optomechanical cavity coupled to a Rydberg superatom. Physical Review A, 2015, 91, .	2.5	30
36	Single-photon frequency conversion via a giant <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î›</mml:mi></mml:math> -type atom. Physical Review A, 2021, 104, .	2.5	30

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37	Fast optical cooling of nanomechanical cantilever with the dynamical Zeeman effect. Optics Express, 2013, 21, 29695.	3.4	29
38	Optimal quantum parameter estimation in a pulsed quantum optomechanical system. Physical Review A, 2016, 93, .	2.5	29
39	Determination of enantiomeric excess with chirality-dependent ac Stark effects in cyclic three-level models. Physical Review A, 2019, 100, .	2.5	29
40	Collective radiance effects in the ultrastrong-coupling regime. Physical Review A, 2019, 99, .	2.5	28
41	Nonreciprocal frequency conversion with chiral <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î›</mml:mi></mml:math> -type atoms. Physical Review Research, 2021, 3, .	3.6	28
42	Collective spontaneous emission beyond the rotating-wave approximation. Physical Review A, 2012, 85, .	2.5	27
43	Generating large steady-state optomechanical entanglement by the action of Casimir force. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2276-2284.	5.1	27
44	Single-photon nonreciprocal excitation transfer with non-Markovian retarded effects. Physical Review A, 2021, 103, .	2.5	27
45	Analogue of cavity quantum electrodynamics for coupling between spin and a nanomechanical resonator: Dynamic squeezing and coherent manipulations. Physical Review B, 2007, 75, .	3.2	26
46	Effect of the Casimir force on the entanglement between a levitated nanosphere and cavity modes. Physical Review A, 2012, 86, .	2.5	26
47	Cooling a micromechanical resonator by quantum back-action from a noisy qubit. Physical Review B, 2009, 80, .	3.2	25
48	Spectrum of collective spontaneous emission beyond the rotating-wave approximation. Physical Review A, 2013, 87, .	2.5	25
49	Effect of atomic distribution on cooperative spontaneous emission. Physical Review A, 2014, 89, .	2.5	25
50	Microwave degenerate parametric down-conversion with a single cyclic three-level system in a circuit-QED setup. Physical Review A, 2015, 91, .	2.5	25
51	Effective two-level models for highly efficient inner-state enantioseparation based on cyclic three-level systems of chiral molecules. Physical Review A, 2019, 100, .	2.5	25
52	Quantum-state transfer characterized by mode entanglement. Physical Review A, 2005, 72, .	2.5	24
53	Dynamic sensitivity of photon-dressed atomic ensemble with quantum criticality. Physical Review A, 2009, 80, .	2.5	24
54	Optically mediated spatial localization of collective modes of two coupled cantilevers for high sensitivity optomechanical transducer. Applied Physics Letters, 2014, 105, 014108.	3.3	24

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55	Optimal quantum channel estimation of two interacting qubits subject to decoherence. European Physical Journal D, 2014, 68, 1.	1.3	24
56	Giant atoms with time-dependent couplings. Physical Review Research, 2022, 4, .	3.6	24
57	Dynamics of a levitated nanosphere by optomechanical coupling and Casimir interaction. Physical Review A, 2013, 88, .	2.5	23
58	The energy-level crossing behavior and quantum Fisher information in a quantum well with spin-orbit coupling. Scientific Reports, 2016, 6, 22347.	3.3	23
59	Casimir switch: steering optical transparency with vacuum forces. Scientific Reports, 2016, 6, 27102.	3.3	22
60	Correlated photons and collective excitations of a cyclic atomic ensemble. Physical Review A, 2006, 73, .	2.5	21
61	Electromagnetically-induced-transparencyâ€“like phenomenon with two atomic ensembles in a cavity. Physical Review A, 2013, 88, .	2.5	21
62	Manifestation of classical nonlinear dynamics in optomechanical entanglement with a parametric amplifier. Physical Review A, 2019, 100, .	2.5	21
63	Enantio-discrimination via light deflection effect. Journal of Chemical Physics, 2020, 152, 204305.	3.0	21
64	Gyroscope with two-dimensional optomechanical mirror. New Journal of Physics, 2017, 19, 113004.	2.9	20
65	Fast enantioconversion of chiral mixtures based on a four-level double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î”</mml:mi></mml:math> model. Physical Review Research, 2020, 2, .	3.6	19
66	Dynamics of quantum zeno and anti-zeno effects in an open system. Science China: Physics, Mechanics and Astronomy, 2014, 57, 194-207.	5.1	18
67	Classical analog of StÃ¼ckelberg interferometry in a two-coupled-cantileverâ€“based optomechanical system. Physical Review A, 2016, 94, .	2.5	18
68	Nonreciprocal single-photon frequency converter via multiple semi-infinite coupled-resonator waveguides. Physical Review A, 2017, 96, .	2.5	18
69	Phase-controlled single-photon nonreciprocal transmission in a one-dimensional waveguide. Physical Review A, 2019, 100, .	2.5	18
70	Time-dependent FrÃ¶hlich transformation approach for two-atom entanglement generated by successive passage through a cavity. Physical Review A, 2007, 75, .	2.5	17
71	Generating the SchrÃ¶dinger cat state in a nanomechanical resonator coupled to a charge qubit. Annalen Der Physik, 2015, 527, 180-186.	2.4	17
72	Cooperative spontaneous emission of three identical atoms. Physical Review A, 2013, 88, .	2.5	16

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73	Coherent Optomechanical Switch for Motion Transduction Based on Dynamically Localized Mechanical Modes. Physical Review Applied, 2018, 9, .	3.8	16
74	Improving optomechanical gyroscopes by coherent quantum noise cancellation processing. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	16
75	Directional phase-sensitive amplifier between microwave and optical photons. Physical Review A, 2019, 99, .	2.5	16
76	Absolute rotation detection by Coriolis force measurement using optomechanics. New Journal of Physics, 2016, 18, 103047.	2.9	15
77	Enantio-conversion of chiral mixtures via optical pumping. Physical Review A, 2021, 103, .	2.5	15
78	Spatial enantioseparation of gaseous chiral molecules. Physical Review A, 2021, 104, .	2.5	14
79	Cooling a charged mechanical resonator with time-dependent bias gate voltages. Journal of Physics Condensed Matter, 2013, 25, 142201.	1.8	13
80	Optimal unidirectional amplification induced by optical gain in optomechanical systems. Physical Review A, 2019, 100, .	2.5	13
81	Collective effects of multiscattering on the coherent propagation of photons in a two-dimensional network. Physical Review A, 2013, 88, .	2.5	12
82	Enantiomeric-excess determination based on nonreciprocal-transition-induced spectral-line elimination. Physical Review A, 2020, 102, .	2.5	12
83	Engineering optomechanical entanglement via dual-mode cooling with a single reservoir. Physical Review A, 2021, 103, .	2.5	12
84	Evading thermal population influence on enantiomeric-specific state transfer based on a cyclic three-level system via ro-vibrational transitions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 235103.	1.5	12
85	Switchable bipartite and genuine tripartite entanglement via an optoelectromechanical interface. Physical Review A, 2020, 101, .	2.5	11
86	Controllable optical response and tunable sensing based on self interference in waveguide QED systems. Optics Express, 2021, 29, 3038.	3.4	11
87	Coherent state transfer through a multi-channel quantum network: Natural versus controlled evolution passage. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	10
88	Nonreciprocal interference and coherent photon routing in a three-port optomechanical system. Optics Express, 2020, 28, 3647.	3.4	10
89	Enantiodetection of cyclic three-level chiral molecules in a driven cavity. Physical Review Research, 2022, 4, .	3.6	10
90	Dissipation and decoherence induced by collective dephasing in a coupled-qubit system with a common bath. Physical Review A, 2015, 91, .	2.5	9

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91	Robust Multiple-Range Coherent Quantum State Transfer. Scientific Reports, 2016, 6, 28886.	3.3	8
92	Indirect driving of a cavity-QED system and its induced nonlinearity. Physical Review A, 2014, 90, .	2.5	7
93	Partially dark optical molecule via phase control. Physical Review A, 2017, 95, .	2.5	7
94	Quantum signature for laser-driven correlated excitation of Rydberg atoms. Physical Review A, 2017, 95, .	2.5	7
95	Enhancing optical nonreciprocity by an atomic ensemble in two coupled cavities. Optics Communications, 2018, 415, 39-42.	2.1	7
96	Coriolis-force-induced coupling between two modes of a mechanical resonator for detection of angular velocity. Physical Review A, 2018, 98, .	2.5	7
97	Enantio-detection via cavity-assisted three-photon processes. Optics Express, 2021, 29, 36132.	3.4	7
98	Nonreciprocal light transmission via optomechanical parametric interactions. Optics Letters, 2022, 47, 1182.	3.3	7
99	An impurity-induced gap system as a quantum data bus for quantum state transfer. Annals of Physics, 2014, 348, 278-288.	2.8	6
100	Geometric Energy Transfer in a StÃ¼ckelberg Interferometer of Two Parametrically Coupled Mechanical Modes. Physical Review Applied, 2019, 11, .	3.8	6
101	An improved laser-distillation method for complete enantio-conversion of chiral mixtures. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145102.	1.5	6
102	Dynamical emission of phonon pairs in optomechanical systems. Physical Review A, 2022, 105, .	2.5	6
103	Connecting quantum steering with extractable work in a two-mode Gaussian state. European Physical Journal D, 2020, 74, 1.	1.3	5
104	Manipulating a micro-cantilever between its optomechanical bistable states in a lever-based Fabry-PÃ©rot cavity. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1-5.	5.1	4
105	Three-mode optomechanical system for angular velocity detection. Chinese Physics B, 2018, 27, 084203.	1.4	4
106	Controllable optical response in a three-mode optomechanical system by driving the cavities on different sidebands. Optics Express, 2019, 27, 21843.	3.4	4
107	Utilizing competitions between optical parametric amplifications and dissipations to manipulate photon transport. Physical Review A, 2019, 100, .	2.5	4
108	Coherent phonon-mediated dynamics for an addressable transducer of coupled micro-mechanical resonators. Applied Physics Letters, 2021, 118, .	3.3	4

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109	Overcoming standard quantum limit using a momentum measuring interferometer. Optics Letters, 2020, 45, 1256.	3.3	4
110	Shot-noise-limited interferometry for measuring a classical force. Physical Review A, 2018, 98, .	2.5	3
111	Detection of emitter-resonator coupling strength in the quantum Rabi model via an auxiliary resonator. Physical Review A, 2018, 98, .	2.5	3
112	Static nonlinear SchrÃ¶dinger equations for the achiral-chiral transitions of polar chiral molecules. Physical Review A, 2019, 99, .	2.5	3
113	Enantiospecific state transfer for gaseous symmetric-top chiral molecules. Physical Review A, 2022, 105, .	2.5	3
114	Transient Dynamics of Light Propagation in Î›-Atom EIT Medium. Communications in Theoretical Physics, 2005, 44, 356-364.	2.5	2
115	Unidirectional gyroscope using optomechanics to avoid mode-locking. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	1
116	Geometric motion transfer between two indirectly coupled mechanical resonators. Applied Physics Letters, 2021, 119, 143504.	3.3	1
117	Dynamically producing asymmetric interferometric power under dephasing. Physical Review A, 2022, 105, .	2.5	1
118	Overcoming standard quantum limit using a momentum measuring interferometer: publisherâ€™s note. Optics Letters, 2020, 45, 2172.	3.3	0
119	Probing Dynamical Anderson Transition in a Periodicallyâ€Driven Lattice by Statistical Measures. Annalen Der Physik, 2022, 534, .	2.4	0