Tie-Jun Wang

List of Publications by Year
in descending order

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156 papers	4,300 citations	147801 31 h-index	123424 61 g-index
157 all docs	157 docs citations	157 times ranked	1258 citing authors

#	Article	IF	Citations
1	Quantum secure direct communication with high-dimension quantum superdense coding. Physical Review A, 2005, 71, .	2.5	798
2	Multi-step quantum secure direct communication using multi-particle Greenâ€“Horneâ€“Zeilinger state. Optics Communications, 2005, 253, 15-20.	2.1	318
3	Quantum secure direct communication and deterministic secure quantum communication. Frontiers of Physics in China, 2007, 2, 251-272.	1.0	247
4	Entanglement purification and concentration of electron-spin entangled states using quantum-dot spins in optical microcavities. Physical Review A, 2011, 84, .	2.5	188
5	Quantum repeater based on spatial entanglement of photons and quantum-dot spins in optical microcavities. Physical Review A, 2012, 85, .	2.5	181
6	Generation and complete analysis of the hyperentangled Bell state for photons assisted by quantum-dot spins in optical microcavities. Physical Review A, 2012, 86, .	2.5	147
7	High-Capacity Quantum Secure Direct Communication Based on Quantum Hyperdense Coding with Hyperentanglement. Chinese Physics Letters, 2011, 28, 040305.	3.3	94
8	Efficient entanglement concentration for partially entangled electrons using a quantum-dot and microcavity coupled system. Physical Review A, 2012, 86, .	2.5	81
9	Atomic entanglement purification and concentration using coherent state input-output process in low-Q cavity QED regime. Optics Express, 2013, 21, 4093.	3.4	77
10	Implementation of single-photon quantum routing and decoupling using a nitrogen-vacancy center and a whispering-gallery-mode resonator-waveguide system. Optics Express, 2017, 25, 16931.	3.4	62
11	One-step hyperentanglement purification and hyperdistillation with linear optics. Optics Express, 2015, 23, 9284.	3.4	60
12	Efficient strategy for sharing entanglement via noisy channels with doubly entangled photon pairs. Physical Review A, 2008, 77, .	2.5	59
13	Cavity-mediated coupling of phonons and magnons. Physical Review A, 2017, 96, .	2.5	53
14	Polarization-entanglement purification and concentration using cross-Kerr nonlinearity. Quantum Information and Computation, 2011, 11, 988-1002.	0.3	53
15	High-dimensional quantum state transfer through a quantum spin chain. Physical Review A, 2013, 87, .	2.5	52
16	Quantum state sharing of an arbitrary m-qudit state with two-qudit entanglements and generalized Bell-state measurements. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4716-4722.	2.6	48
17	Concentrating partially entangled W-class states on nonlocal atoms using low-Q optical cavity and linear optical elements. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	48
18	Linear-optical implementation of hyperdistillation from photon loss. Physical Review A, 2014, 89, .	2.5	45

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19	Quantum secret sharing protocol with four state Grover algorithm and its proof-of-principle experimental demonstration. Optics Communications, 2011, 284, 3639-3642.	2.1	44
20	Universal quantum controlled phase gate on photonic qubits based on nitrogen vacancy centers and microcavity resonators. Optics Express, 2013, 21, 19252.	3.4	43
21	Entanglement purification based on hybrid entangled state using quantum-dot and microcavity coupled system. Optics Express, 2011, 19, 25685.	3.4	42
22	Arbitrarily long distance quantum communication using inspection and power insertion. Science Bulletin, 2009, 54, 158-162.	1.7	41
23	Concentration and distribution of entanglement based on valley qubits system in graphene. Science Bulletin, 2015, 60, 2016-2021.	9.0	41
24	Tunable high-order sideband spectra generation using a photonic molecule optomechanical system. Scientific Reports, 2016, 6, 22920.	3.3	41
25	Nonlocal hyperconcentration on entangled photons using photonic module system. Annals of Physics, 2016, 369, 128-138.	2.8	41
26	High-Capacity Quantum Secure Direct Communication With Orbital Angular Momentum of Photons. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	38
27	QUANTUM DIRECT COMMUNICATION BASED ON QUANTUM SEARCH ALGORITHM. International Journal of Quantum Information, 2010, 08, 443-450.	1.1	36
28	Universal hybrid three-qubit quantum gates assisted by a nitrogen-vacancy center coupled with a whispering-gallery-mode microresonator. Physical Review A, 2014, 90, .	2.5	35
29	Silicon on-chip 1D photonic crystal nanobeam bandstop filters for the parallel multiplexing of ultra-compact integrated sensor array. Optics Express, 2016, 24, 16267.	3.4	35
30	Single nanoparticle trapping based on on-chip nanoslotted nanobeam cavities. Photonics Research, 2018, 6, 99.	7.0	34
31	Photon excitation and photon-blockade effects in optomagnonic microcavities. Physical Review A, 2019, 100, .	2.5	34
32	Protected quantum-state transfer in decoherence-free subspaces. Physical Review A, 2015, 91, .	2.5	33
33	Recent development in quantum communication. Science Bulletin, 2012, 57, 4694-4700.	1.7	31
34	Universal hybrid hyper-controlled quantum gates assisted by quantum dots in optical double-sided microcavities. Laser Physics Letters, 2014, 11, 025203.	1.4	31
35	Entanglement concentration for arbitrary unknown less-entangled three-photon W states with linear optics. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1069.	2.1	30
36	Recent progress on optomagnetic coupling and optical manipulation based on cavity-optomagnonics. Frontiers of Physics, 2022, 17, .	5.0	27

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37	Faithful quantum secure direct communication protocol against collective noise. Chinese Physics B, 2010, 19, 110306.	1.4	24
38	Efficient entanglement purification of separate nitrogen-vacancy centers via coupling to microtoroidal resonators. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3349.	2.1	24
39	Efficient multipartite entanglement concentration protocol for nitrogen-vacancy center and microresonator coupled systems. Quantum Information Processing, 2015, 14, 1265-1277.	2.2	22
40	Hyperentanglement purification using imperfect spatial entanglement. Optics Express, 2017, 25, 2969.	3.4	22
41	Complete entanglement analysis on electron spins using quantum dot and microcavity coupled system. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2054-2058.	5.1	21
42	Concentration of entangled nitrogen-vacancy centers in decoherence free subspace. Optics Express, 2014, 22, 1551.	3.4	21
43	Quantum Secure Direct Communication with Authentication Expansion Using Single Photons. Communications in Theoretical Physics, 2010, 54, 829-834.	2.5	20
44	Hybrid entanglement concentration using quantum dot and microcavity coupled system. Quantum Information Processing, 2014, 13, 1025-1034.	2.2	20
45	Efficient entanglement purification for doubly entangled photon state. Science in China Series D: Earth Sciences, 2009, 52, 3464-3467.	0.9	19
46	Multiphoton quantum communication in quantum networks. Physical Review A, 2014, 89, .	2.5	19
47	Magnon-induced chaos in an optical <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric resonator. Physical Review E, 2020, 101, 012205.	2.1	19
48	Entanglement concentration for multi-particle partially entangled W state using nitrogen vacancy center and microtoroidal resonator system. Optics Communications, 2013, 298-299, 260-266.	2.1	18
49	Construction of high-dimensional universal quantum logic gates using a Î› system coupled with a whispering-gallery-mode microresonator. Optics Express, 2016, 24, 15429.	3.4	18
50	Complete hyperentangled-Bell-state analysis for photonic qubits assisted by a three-level Î›-type system. Scientific Reports, 2016, 6, 19497.	3.3	18
51	Tunable Plasmonic Wavelength Demultiplexing Device Using Coupled Resonator System. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	18
52	Optothermal control of gains in erbium-doped whispering-gallery microresonators. Optics Letters, 2018, 43, 326.	3.3	18
53	Quantum secure direct communication. Scientia Sinica: Physica, Mechanica Et Astronomica, 2011, 41, 332-342.	0.4	18
54	High-efficient entanglement distillation from photon loss and decoherence. Optics Express, 2015, 23, 31550.	3.4	17

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55	Optical High-Order Sideband Comb Generation in a Photonic Molecule Optomechanical System. IEEE Journal of Quantum Electronics, 2016, 52, 1-5.	1.9	17
56	Gain competition induced mode evolution and resonance control in erbium-doped whispering-gallery microresonators. Optics Express, 2016, 24, 9550.	3.4	17
57	Gain lifetime characterization through time-resolved stimulated emission in a whispering-gallery mode microresonator. Nanophotonics, 2018, 8, 127-134.	6.0	17
58	The analysis of high-order sideband signals in optomechanical system. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	17
59	Magnons scattering induced photonic chaos in the optomagnonic resonators. Nanophotonics, 2020, 9, 1953-1961.	6.0	17
60	Packaged Microbubble Resonator for Versatile Optical Sensing. Journal of Lightwave Technology, 2020, 38, 4555-4559.	4.6	17
61	Six-State Quantum Key Distribution Using Photons with Orbital Angular Momentum. Chinese Physics Letters, 2010, 27, 110303.	3.3	16
62	Magnon-induced optical high-order sideband generation in hybrid atom-cavity optomagnonical system. Optics Express, 2020, 28, 22334.	3.4	16
63	Optical implementation of quantum random walks using weak cross-Kerr media. Science Bulletin, 2011, 56, 2088-2091.	1.7	15
64	Remote Three-Party Quantum State Sharing Based on Three-Atom Entangled States Assisted by Cavity QED and Flying Qubits. Communications in Theoretical Physics, 2011, 55, 795-803.	2.5	15
65	Cluster state entanglement generation and concentration on nitrogen-vacancy centers in decoherence-free subspace. Laser Physics Letters, 2015, 12, 036001.	1.4	15
66	Nanoscatterer-mediated frequency combs in cavity optomagnonics. Physical Review A, 2020, 102, .	2.5	15
67	High-dimensional measurement-device-independent quantum secure direct communication. Quantum Information Processing, 2020, 19, 1.	2.2	15
68	Experimental distinction of Autler-Townes splitting from electromagnetically induced transparency using coupled mechanical oscillators system. Scientific Reports, 2016, 6, 19040.	3.3	14
69	The analysis of high-capacity quantum secure direct communication using polarization and orbital angular momentum of photons. Modern Physics Letters B, 2020, 34, 2050017.	1.9	13
70	DOUBLING THE CAPACITY OF QUANTUM KEY DISTRIBUTION BY USING BOTH POLARIZATION AND DIFFERENTIAL PHASE SHIFT. International Journal of Quantum Information, 2009, 07, 529-537.	1.1	12
71	Quantum key distribution using polarization and frequency hyperentangled photons. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2072.	2.1	12
72	Gaussian entanglement generation from coherence using beam-splitters. Scientific Reports, 2016, 6, 38002.	3.3	12

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73	Effective Mass Sensing Using Optomechanically Induced Transparency in Microresonator System. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	12
74	Realization of quantum state privacy amplification in a nuclear magnetic resonance quantum system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 125502.	1.5	11
75	Multipartite electronic entanglement purification using quantum-dot spin and microcavity system. Quantum Information Processing, 2013, 12, 525-536.	2.2	11
76	Efficient entanglement concentration of arbitrary unknown less-entangled three-atom W states via photonic Faraday rotation in cavity QED. Quantum Information Processing, 2017, 16, 1.	2.2	11
77	A hybrid-system approach for W state and cluster state generation. Optics Communications, 2014, 310, 166-172.	2.1	10
78	Concentration on partially entangled W-class states on nitrogen-vacancy centers assisted by microresonator. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1524.	2.1	10
79	High-capacity quantum secure direct communication using hyper-entanglement of photonic qubits. International Journal of Quantum Information, 2016, 14, 1650043.	1.1	10
80	Quantum Key Distribution with High Order Fibonacci-like Orbital Angular Momentum States. International Journal of Theoretical Physics, 2017, 56, 2622-2634.	1.2	10
81	Optomechanically engineered phononic mode resonance. Optics Express, 2017, 25, 26638.	3.4	10
82	Chiral microresonator assisted by Rydberg-atom ensembles. Physical Review A, 2018, 98, .	2.5	10
83	Control power of high-dimensional controlled teleportation. Physical Review A, 2020, 101, .	2.5	10
84	Experimental realization of quantum cryptography communication in free space. Science in China Series G: Physics, Mechanics and Astronomy, 2005, 48, 237.	0.2	9
85	Implementation of Quantum Private Queries Using Nuclear Magnetic Resonance. Chinese Physics Letters, 2011, 28, 080302.	3.3	9
86	Parallel Quantum Computing Teleportation for Spin Qubits in Quantum Dot and Microcavity Coupled System. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 91-97.	2.9	9
87	Efficient Teleportation for High-Dimensional Quantum Computing. IEEE Access, 2019, 7, 115331-115338.	4.2	9
88	Efficient multiâ€qubit quantum data compression. Quantum Engineering, 2021, 3, e67.	2.5	9
89	Entanglement concentration for an arbitrary hybrid less-entangled state and W state using quantum dots and a microcavity coupled system. Chinese Physics B, 2012, 21, 110305.	1.4	8
90	High-Dimensional Circular Quantum Secret Sharing Using Orbital Angular Momentum. International Journal of Theoretical Physics, 2016, 55, 4963-4971.	1.2	8

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91	Implementation of a multiple round quantum dense coding using nuclear magnetic resonance. Science in China Series G: Physics, Mechanics and Astronomy, 2005, 48, 706.	0.2	8
92	Berry phase in an anti-PT symmetric metal-semiconductor complex system. Optics Express, 2019, 27, 22237.	3.4	8
93	Hyperentanglement purification with linear optics assisted by W-states. Quantum Information Processing, 2015, 14, 623-634.	2.2	7
94	Efficient purification and concentration for $$varLambda $$ Î› -type three-level entangled quantum dots using non-reciprocal microresonators. Quantum Information Processing, 2017, 16, 1.	2.2	7
95	Entanglement purification and concentration based on hybrid spin entangled states of separate nitrogen-vacancy centers. Europhysics Letters, 2019, 126, 40006.	2.0	7
96	Control power of a high-dimensional controlled nonlocal quantum computation. Physical Review A, 2021, 103, .	2.5	7
97	Polarization-Entanglement Purification for Ideal Sources Using Weak Cross-Kerr Nonlinearity. International Journal of Theoretical Physics, 2013, 52, 1265-1273.	1.2	6
98	Optimal atomic entanglement concentration using coherent-state inputâ€“output process in low-Q cavity quantum electrodynamics system. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2136.	2.1	6
99	Generation and analysis of hyperentangled multiqubit states for photons using quantum-dot spins in optical microcavities. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2689.	2.1	6
100	Silicon On-chip 1D Photonic Crystal Nanobeam Bandgap Filter Integrated with Nanobeam Cavity for Accurate Refractive Index Sensing. IEEE Photonics Journal, 2016, , 1-1.	2.0	6
101	Ultracompact On-Chip Multiplexed Sensor Array Based on Dense Integration of Flexible 1-D Photonic Crystal Nanobeam Cavity With Large Free Spectral Range and High Q-Factor. IEEE Photonics Journal, 2017, 9, 1-12.	2.0	6
102	Gap induced mode evolution under the asymmetric structure in a plasmonic resonator system. Photonics Research, 2017, 5, 113.	7.0	6
103	Control power of high-dimensional controlled dense coding. Physical Review A, 2022, 105, .	2.5	6
104	Ultrasound Sensing Using Packaged Microsphere Cavity in the Underwater Environment. Sensors, 2022, 22, 4190.	3.8	6
105	No-relationship Between Impossibility of Faster-Than-Light Quantum Communication and Distinction of Ensembles with the Same Density Matrix. Communications in Theoretical Physics, 2005, 44, 622-624.	2.5	5
106	Generalized quantum state sharing of the arbitrary two particles state. Science China: Physics, Mechanics and Astronomy, 2010, 53, 2064-2068.	5.1	5
107	Quantum Secure Direct Communication. , 2013, , .		5
108	Quantum Controlled-Not Gate Operation and Complete Bell-State Analysis Using Hybrid Quantum Circuits. International Journal of Theoretical Physics, 2014, 53, 235-248.	1.2	5

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109	Quantum correlations in Gaussian states via Gaussian channels: steering, entanglement, and discord. Quantum Information Processing, 2016, 15, 2441-2453.	2.2	5
110	Parity-Time-Anyonic Coupled Resonators System With Tunable Exceptional Points. IEEE Access, 2019, 7, 107874-107878.	4.2	5
111	Photothermally Induced Transparency in Modeâ€Cascaded Microcavity. Advanced Photonics Research, 2020, 1, 2000016.	3.6	5
112	The Study of Security During Quantum Dense Coding in High-Dimensions. International Journal of Theoretical Physics, 2020, 59, 1957-1965.	1.2	5
113	Two-copy quantum teleportation based on GHZ measurement. Quantum Information Processing, 2020, 19, 1.	2.2	5
114	Hybrid coupling optomechanical assisted nonreciprocal photon blockade. Optics Express, 2021, 29, 25161.	3.4	5
115	Nonlocal entanglement concentration of separate nitrogen-vacancy centers coupling to microtoroidal resonators. Quantum Information and Computation, 2014, 14, 107-121.	0.3	5
116	Dicke state generation using cross-Kerr nonlinearity. Journal of Modern Optics, 2011, 58, 21-25.	1.3	4
117	Decoherence-free subspaces of anyon states. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 4713-4718.	2.6	4
118	Nonlocal entanglement analysis using quantum dot and microcavity coupled system. Journal of Modern Optics, 2012, 59, 962-966.	1.3	4
119	Method for Generating W States Basedon Nitrogen-Vacancy Centers and Whispering-Gallery Mode Cavity. International Journal of Theoretical Physics, 2014, 53, 3774-3779.	1.2	4
120	Implementation of High Capacity Quantum Secret Sharing Using Orbital Angular Momentum of Photons. International Journal of Theoretical Physics, 2014, 53, 3927-3934.	1.2	4
121	Efficient Quantum Secure Direct Communication Using the Orbital Angular Momentum of Single Photons. International Journal of Theoretical Physics, 2016, 55, 1811-1819.	1.2	4
122	Asymmetrical Bell state analysis for photon-atoms hybrid system. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	4
123	Optomechanically Induced Mode Transition and Spectrum Enhancement in a Microresonator System. Annalen Der Physik, 2019, 531, 1800419.	2.4	4
124	Faithful Transmission of Single-Photon Qubits Using Error-Rejection Coding. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	4
125	The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity. IEEE Photonics Journal, 2020, 12, 1-14.	2.0	4
126	Optical Parametric Oscillation with Ultra-Low Power Threshold in a Dimer of Active-Passive Cavities. Crystals, 2021, 11, 566.	2.2	4

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127	Multi-particle Entanglement Generation Using Quantum-Dot Spin and Optical Microcavity System. Chinese Physics Letters, 2012, 29, 070305.	3.3	3
128	On the developments and applications of optical microcavities: an overview. Science China Information Sciences, 2013, 56, 1-15.	4.3	3
129	Scalable quantum computation via a coherent state inputâ€“output process in a low-Qcavity in the atomâ€“cavity intermediate coupling region. Laser Physics, 2013, 23, 125201.	1.2	3
130	Implementation of quantum repeaters based on nitrogen-vacancy centers via coupling to microtoroid resonators. Laser Physics, 2014, 24, 105204.	1.2	3
131	Optimal photon-magnon mode matching in whispering-gallery mode cavities. Optics Express, 2021, 29, 40061.	3.4	3
132	Free-space quantum-key distribution with polarization compensation. Journal of Russian Laser Research, 2011, 32, 579-583.	0.6	2
133	Dynamics of coherence under Markovian and non-Markovian environments. Modern Physics Letters B, 2017, 31, 1750329.	1.9	2
134	Generation of Entangled and Hyperentangled Bell States on Photon Systems Assisted by Diamond Nitrogen-Vacancy Centers Coupled with Whispering-Gallery-Mode Microresonators. International Journal of Theoretical Physics, 2019, 58, 2200-2212.	1.2	2
135	Optical magnetic sensing using whispering-gallery mode optomagnonical cavity. IEEE Sensors Journal, 2020, , 1-1.	4.7	2
136	Real-time sensing on the angular coordinates of nanoparticles using whispering-gallery mode optical microcavities. Europhysics Letters, 2021, 133, 14002.	2.0	2
137	Electromagnetically Induced Transparency and Absorption in Directly Coupled Whispering-Gallery Mode Microcavities. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	2
138	From Quantum Key Distribution to Quantum Secure Direct Communication. , 2007, , .		1
139	Implementation of a nonlocal N -qubit conditional phase gate using the nitrogenâ€“vacancy center and microtoroidal resonator coupled systems. Chinese Physics B, 2014, 23, 040304.	1.4	1
140	Electronically controlled plasmonic switch using a nanomechanical oscillator and metallic nanoparticle hybrid system. Laser Physics Letters, 2015, 12, 105202.	1.4	1
141	Plasmonic band-pass filter device using coupled asymmetric cross-shaped cavity. Modern Physics Letters B, 2017, 31, 1750001.	1.9	1
142	High-dimensional Controlled-phase Gate Between a 2 N -dimensional Photon and N Three-level Artificial Atoms. International Journal of Theoretical Physics, 2017, 56, 3068-3083.	1.2	1
143	Phase-coupled optical diode based onPTsymmetric system. Optics Communications, 2017, 383, 238-243.	2.1	1
144	Generation of Oneâ€Way Gaussian Steering by Gaussian Channel and Converting Oneâ€Way Gaussian Steering by Beamsplitters. Annalen Der Physik, 2018, 530, 1700328.	2.4	1

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145	Silicon On-chip Ultracompact Integrated Sensor Array Based on High-Q Photonic Crystal Nanobeam Cavities with Very Large Free Spectral Range. , 2017, , .		1
146	Efficient hyperentanglement purification using a Î› system coupled with a whispering-gallery-mode microresonator. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 423.	2.1	1
147	The transmission efficiency analysis for quantum secure direct communications over noisy channels. International Journal of Quantum Information, 0, , .	1.1	1
148	The ground-state entanglement in the spin- XX chain with a magnetization current. Chinese Physics B, 2010, 19, 110308.	1.4	0
149	A novel proposal for ultracompact WDM demultiplexer design based on flexible 1D photonic crystal nanobeam cavities. , 2017, , .		0
150	Efficient Entanglement Distillation of Solid Qubits Using Non-Reciprocal Microresonators. , 2017, , .		0
151	The Nonlinear Effects of a Kerr-Resonator Optomechanical System. International Journal of Theoretical Physics, 2018, 57, 957-964.	1.2	0
152	Electromagnetic Engineered Mechanical Trapping Potential and the Conversion in Optomechanics. IEEE Journal of Quantum Electronics, 2019, 55, 1-7.	1.9	0
153	High-Dimensional Bell State Analysis for Photon-Atoms Hybrid System. International Journal of Theoretical Physics, 2019, 58, 451-462.	1.2	0
154	Hybrid Dissipative and Dispersive Optomechanically Induced Transparency. IEEE Transactions on Quantum Engineering, 2021, 2, 1-8.	4.9	0
155	Gain Enhanced Second Harmonic Generation in Coupled Resonators System. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	0
156	Quantum entanglement between two antiferromagnets in the microcavities. Europhysics Letters, 0, , .	2.0	0