

Gui-Lu Long

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

332 papers	13,093 citations	45 h-index	105 g-index
369 ext. papers	15,242 ext. citations	3.7 avg, IF	6.99 L-index

#	Paper	IF	Citations
332	Parity-time-symmetric whispering-gallery microcavities. <i>Nature Physics</i> , 2014 , 10, 394-398	16.2	1394
331	Two-step quantum direct communication protocol using the Einstein-Podolsky-Rosen pair block. <i>Physical Review A</i> , 2003 , 68,	2.6	1242
330	Secure direct communication with a quantum one-time pad. <i>Physical Review A</i> , 2004 , 69,	2.6	852
329	Quantum secure direct communication with high-dimension quantum superdense coding. <i>Physical Review A</i> , 2005 , 71,	2.6	693
328	Efficient multiparty quantum-secret-sharing schemes. <i>Physical Review A</i> , 2004 , 69,	2.6	619
327	Experimental realization of nonadiabatic holonomic quantum computation. <i>Physical Review Letters</i> , 2013 , 110, 190501	7.4	297
326	Multi-step quantum secure direct communication using multi-particle GreenBorneZeilinger state. <i>Optics Communications</i> , 2005 , 253, 15-20	2	286
325	Bidirectional quantum key distribution protocol with practical faint laser pulses. <i>Physical Review A</i> , 2004 , 70,	2.6	259
324	Complete hyperentangled-Bell-state analysis for quantum communication. <i>Physical Review A</i> , 2010 , 82,	2.6	257
323	Experimental quantum secure direct communication with single photons. <i>Light: Science and Applications</i> , 2016 , 5, e16144	16.7	233
322	Quantum secure direct communication and deterministic secure quantum communication. <i>Frontiers of Physics in China</i> , 2007 , 2, 251-272		204
321	Bidirectional quantum secret sharing and secret splitting with polarized single photons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 337, 329-334	2.3	174
320	Quantum repeater based on spatial entanglement of photons and quantum-dot spins in optical microcavities. <i>Physical Review A</i> , 2012 , 85,	2.6	161
319	Highly sensitive detection of nanoparticles with a self-referenced and self-heterodyned whispering-gallery Raman microlaser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3836-44	11.5	158
318	Quantum computing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 11847-8	11.5	145
317	Generation and complete analysis of the hyperentangled Bell state for photons assisted by quantum-dot spins in optical microcavities. <i>Physical Review A</i> , 2012 , 86,	2.6	130
316	Phase matching in quantum searching. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 262, 27-34	2.3	129

3 ¹⁵	Implementation and security analysis of practical quantum secure direct communication. <i>Light: Science and Applications</i> , 2019 , 8, 22	16.7	117
3 ¹⁴	Device-independent quantum secure direct communication against collective attacks. <i>Science Bulletin</i> , 2020 , 65, 12-20	10.6	115
3 ¹³	An efficient quantum secret sharing scheme with Einstein-Podolsky-Rosen pairs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 340, 43-50	2.3	112
3 ¹²	Circular quantum secret sharing. <i>Journal of Physics A</i> , 2006 , 39, 14089-14099		111
3 ¹¹	General hyperentanglement concentration for photon systems assisted by quantum-dot spins inside optical microcavities. <i>Optics Express</i> , 2014 , 22, 6547-61	3.3	91
3 ¹⁰	Measurement-device-independent quantum secure direct communication. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	91
3 ⁰⁹	Hybrid entanglement purification for quantum repeaters. <i>Physical Review A</i> , 2013 , 88,	2.6	90
3 ⁰⁸	Measurement-device-independent quantum communication without encryption. <i>Science Bulletin</i> , 2018 , 63, 1345-1350	10.6	86
3 ⁰⁷	Simulation of Heisenberg XY interactions and realization of a perfect state transfer in spin chains using liquid nuclear magnetic resonance. <i>Physical Review A</i> , 2005 , 72,	2.6	78
3 ⁰⁶	Eavesdropping in a quantum secret sharing protocol based on Grover algorithm and its solution. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 491-495	3.6	77
3 ⁰⁵	Observation of a fast evolution in a parity-time-symmetric system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120053	3	73
3 ⁰⁴	Experimental realization of single-shot nonadiabatic holonomic gates in nuclear spins. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017 , 60, 1	3.6	68
3 ⁰³	Efficient scheme for initializing a quantum register with an arbitrary superposed state. <i>Physical Review A</i> , 2001 , 64,	2.6	67
3 ⁰²	Measure of nonclassical correlation in coherence-vector representation. <i>Physical Review A</i> , 2011 , 84,	2.6	61
3 ⁰¹	Parallel quantum computing in a single ensemble quantum computer. <i>Physical Review A</i> , 2004 , 69,	2.6	61
3 ⁰⁰	Dominant gate imperfection in Grover's quantum search algorithm. <i>Physical Review A</i> , 2000 , 61,	2.6	58
2 ⁹⁹	Hyperparallel optical quantum computation assisted by atomic ensembles embedded in double-sided optical cavities. <i>Physical Review A</i> , 2016 , 94,	2.6	58
2 ⁹⁸	Three-pathway electromagnetically induced transparency in coupled-cavity optomechanical system. <i>Optics Express</i> , 2015 , 23, 11508-17	3.3	55

297	Efficient strategy for sharing entanglement via noisy channels with doubly entangled photon pairs. <i>Physical Review A</i> , 2008 , 77,	2.6	55
296	Phase matching condition for quantum search with a generalized initial state. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002 , 294, 143-152	2.3	55
295	Universal nonadiabatic geometric gates in two-qubit decoherence-free subspaces. <i>Scientific Reports</i> , 2014 , 4, 6814	4.9	54
294	Dynamic Fano-like resonances in erbium-doped whispering-gallery-mode microresonators. <i>Applied Physics Letters</i> , 2014 , 105, 101112	3.4	53
293	Duality Quantum Computing and Duality Quantum Information Processing. <i>International Journal of Theoretical Physics</i> , 2011 , 50, 1305-1318	1.1	50
292	Enhancing quantum control by bootstrapping a quantum processor of 12 qubits. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	49
291	Octupole correlations in neutron-rich $^{145,147}\text{La}$ nuclei: Coriolis-limit-coupling bands with aligned $h11/2$ proton. <i>Physical Review C</i> , 1999 , 59, 1316-1323	2.7	49
290	Experimental realization of a fetching algorithm in a 7-qubit NMR spin Liouville space computer. <i>Journal of Chemical Physics</i> , 2003 , 119, 8473-8481	3.9	46
289	Hyper-parallel Toffoli gate on three-photon system with two degrees of freedom assisted by single-sided optical microcavities. <i>Optics Express</i> , 2016 , 24, 18619-30	3.3	46
288	Dissipative preparation of steady Greenberger-Horne-Zeilinger states for Rydberg atoms with quantum Zeno dynamics. <i>Physical Review A</i> , 2017 , 96,	2.6	45
287	High-dimensional quantum state transfer through a quantum spin chain. <i>Physical Review A</i> , 2013 , 87,	2.6	45
286	ANALYTIC ONE-BIT AND CNOT GATE CONSTRUCTIONS OF GENERAL n -QUBIT CONTROLLED GATES. <i>International Journal of Quantum Information</i> , 2008 , 06, 447-462	0.8	44
285	Multipartite electronic entanglement purification with charge detection. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 396-400	2.3	43
284	Mathematical Theory of the Duality Computer in the Density Matrix Formalism. <i>Quantum Information Processing</i> , 2007 , 6, 49-54	1.6	43
283	Security of quantum secure direct communication based on Wyner's wiretap channel theory. <i>Quantum Engineering</i> , 2019 , 1, e26	4.5	42
282	Experimental estimation of average fidelity of a Clifford gate on a 7-qubit quantum processor. <i>Physical Review Letters</i> , 2015 , 114, 140505	7.4	40
281	Protecting geometric gates by dynamical decoupling. <i>Physical Review A</i> , 2014 , 90,	2.6	40
280	Arbitrarily long distance quantum communication using inspection and power insertion. <i>Science Bulletin</i> , 2009 , 54, 158-162		39

279	Efficient quantum simulation of photosynthetic light harvesting. <i>Npj Quantum Information</i> , 2018 , 4, 8.6 39
278	Analysis of density matrix reconstruction in NMR quantum computing. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001 , 3, 376-381 38
277	Quantum secret sharing protocol with four state Grover algorithm and its proof-of-principle experimental demonstration. <i>Optics Communications</i> , 2011 , 284, 3639-3642 2 37
276	Experimental NMR realization of a generalized quantum search algorithm. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 286, 121-126 2.3 37
275	Gapless topological Fulde-Ferrell superfluidity in spin-orbit coupled Fermi gases. <i>Physical Review Letters</i> , 2014 , 113, 115302 7.4 35
274	Generation of squeezed states of nanomechanical resonator using three-wave mixing. <i>Applied Physics Letters</i> , 2008 , 92, 133102 3.4 35
273	Raman lasing and Fano lineshapes in a packaged fiber-coupled whispering-gallery-mode microresonator. <i>Science Bulletin</i> , 2017 , 62, 875-878 10.6 34
272	A microscopic derivation of the dependence of the IBM3 hamiltonian on the boson number and isospin. <i>Nuclear Physics A</i> , 1993 , 561, 201-231 1.3 34
271	Duality quantum algorithm efficiently simulates open quantum systems. <i>Scientific Reports</i> , 2016 , 6, 30727.9 34
270	Quantum secure direct communication based on single-photon Bell-state measurement. <i>New Journal of Physics</i> , 2020 , 22, 063017 2.9 34
269	Nuclear magnetic resonance implementation of a quantum clock synchronization algorithm. <i>Physical Review A</i> , 2004 , 70, 2.6 33
268	Isospin and symmetry structure in the $f7/2$ shell 44Ti isotopes. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004 , 30, 1287-1298 2.9 33
267	Nuclear structure of 178Hf related to the spin-16, 31-year isomer. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 589, 83-88 4.2 33
266	Hybrid quantum gates between flying photon and diamond nitrogen-vacancy centers assisted by optical microcavities. <i>Scientific Reports</i> , 2015 , 5, 12918 4.9 32
265	Duality quantum computer and the efficient quantum simulations. <i>Quantum Information Processing</i> , 2016 , 15, 1189-1212 1.6 32
264	Highly efficient hyperentanglement concentration with two steps assisted by quantum swap gates. <i>Scientific Reports</i> , 2015 , 5, 16444 4.9 31
263	Nuclear magnetic resonance for quantum computing: Techniques and recent achievements. <i>Chinese Physics B</i> , 2018 , 27, 020308 1.2 30
262	Tomography is Necessary for Universal Entanglement Detection with Single-Copy Observables. <i>Physical Review Letters</i> , 2016 , 116, 230501 7.4 30

261	Digital spiral object identification using random light. <i>Light: Science and Applications</i> , 2017 , 6, e17013	16.7	30
260	Experimental digital quantum simulation of temporal-spatial dynamics of interacting fermion system. <i>Science Bulletin</i> , 2015 , 60, 241-248	10.6	30
259	QUANTUM DIRECT COMMUNICATION BASED ON QUANTUM SEARCH ALGORITHM. <i>International Journal of Quantum Information</i> , 2010 , 08, 443-450	0.8	30
258	Superdeformed band in ^{36}Ar described by the projected shell model. <i>Physical Review C</i> , 2001 , 63,	2.7	30
257	Chip-based silica microspheres for cavity optomechanics. <i>Optics Express</i> , 2015 , 23, 27260-5	3.3	29
256	Entanglement concentration for arbitrary unknown less-entangled three-photon W states with linear optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1069	1.7	29
255	Quantum State Tomography via Reduced Density Matrices. <i>Physical Review Letters</i> , 2017 , 118, 020401	7.4	28
254	Estimation on Geometric Measure of Quantum Coherence. <i>Communications in Theoretical Physics</i> , 2017 , 67, 166	2.4	28
253	Decoherent dynamics of quantum correlations in qubit-qutrit systems. <i>Quantum Information Processing</i> , 2013 , 12, 3421-3435	1.6	28
252	Competition in rotation-alignment between high-j neutrons and protons in transfermium nuclei. <i>Physical Review C</i> , 2009 , 79,	2.7	28
251	Refined hyperentanglement purification of two-photon systems for high-capacity quantum communication with cavity-assisted interaction. <i>Annals of Physics</i> , 2016 , 375, 105-118	2.5	27
250	Experimental quantum simulation of Avian Compass in a nuclear magnetic resonance system. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	27
249	Duality quantum computing. <i>Frontiers of Computer Science</i> , 2008 , 2, 167-178		27
248	Systematics of g factors of $21+$ states in even-even nuclei from Gd to Pt: A microscopic description by the projected shell model. <i>Physical Review C</i> , 2007 , 75,	2.7	27
247	A Full Quantum Eigensolver for Quantum Chemistry Simulations. <i>Research</i> , 2020 , 2020, 1486935	7.8	27
246	Toward Practical Quantum Secure Direct Communication: A Quantum-Memory-Free Protocol and Code Design. <i>IEEE Transactions on Communications</i> , 2020 , 68, 5778-5792	6.9	26
245	Dynamics and entanglement of a membrane-in-the-middle optomechanical system in the extremely-large-amplitude regime. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	26
244	Entanglement and squeezing in solid-state circuits. <i>New Journal of Physics</i> , 2008 , 10, 013026	2.9	26

243	Modified Bennett-Brassard 1984 quantum key distribution protocol with two-way classical communications. <i>Physical Review A</i> , 2005 , 72,	2.6	26
242	An IBM-3 analysis of the nuclei just beyond the magic numbers $N = Z = 28$. <i>Nuclear Physics A</i> , 1996 , 609, 1-20	1.3	26
241	Universal photonic quantum gates assisted by ancilla diamond nitrogen-vacancy centers coupled to resonators. <i>Physical Review A</i> , 2015 , 91,	2.6	25
240	Realistic interpretation of quantum mechanics and encounter-delayed-choice experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	25
239	Photon transport mediated by an atomic chain trapped along a photonic crystal waveguide. <i>Physical Review A</i> , 2018 , 98,	2.6	25
238	Entanglement of linear cluster states in terms of averaged entropies. <i>Science Bulletin</i> , 2013 , 58, 48-52		25
237	Multiple EIT and EIA in optical microresonators. <i>Optics Express</i> , 2019 , 27, 7344-7353	3.3	25
236	Variance-based uncertainty relations for incompatible observables. <i>Quantum Information Processing</i> , 2016 , 15, 3909-3917	1.6	24
235	Induced entanglement enhanced by quantum criticality. <i>Physical Review A</i> , 2008 , 78,	2.6	24
234	An IBM-3 hamiltonian from a multi-j-shell model. <i>Nuclear Physics A</i> , 1995 , 593, 85-94	1.3	24
233	Experimental free-space quantum secure direct communication and its security analysis. <i>Photonics Research</i> , 2020 , 8, 1522	6	24
232	One-step quantum secure direct communication. <i>Science Bulletin</i> , 2021 ,	10.6	24
231	Experimental simulation of anyonic fractional statistics with an NMR quantum-information processor. <i>Physical Review A</i> , 2013 , 88,	2.6	23
230	Collective Band Structures in the Neutron-Rich 107,109 Ru Nuclei. <i>Chinese Physics Letters</i> , 1998 , 15, 793-795	1.5	23
229	Efficient quantum arithmetic operation circuits for quantum image processing. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	22
228	Efficient universal quantum channel simulation in IBM's cloud quantum computer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	22
227	Accessible coherence and coherence distribution. <i>Physical Review A</i> , 2017 , 95,	2.6	22
226	Realization of an entanglement-assisted quantum delayed-choice experiment. <i>Physical Review A</i> , 2015 , 92,	2.6	22

225	Multiple Entropy Measures for Multi-particle Pure Quantum State. <i>Communications in Theoretical Physics</i> , 2010 , 54, 825-828	2.4	22
224	Density Matrix in Quantum Mechanics and Distinctness of Ensembles Having the Same Compressed Density Matrix. <i>Foundations of Physics</i> , 2006 , 36, 1217-1243	1.2	22
223	Fetching marked items from an unsorted database in NMR ensemble computing. <i>Physical Review A</i> , 2002 , 66,	2.6	22
222	Drastic increase of channel capacity in quantum secure direct communication using masking. <i>Science Bulletin</i> , 2021 , 66, 1267-1267	10.6	22
221	Sum uncertainty relations based on Wigner-Yanase skew information. <i>Quantum Information Processing</i> , 2016 , 15, 2639-2648	1.6	22
220	Experimental quantum Hamiltonian identification from measurement time traces. <i>Science Bulletin</i> , 2017 , 62, 863-868	10.6	21
219	Experimental simulation of quantum tunneling in small systems. <i>Scientific Reports</i> , 2013 , 3, 2232	4.9	20
218	Entropy product measure for multipartite pure states 2006 , 49, 606-615		20
217	Modularization of a multi-qubit controlled phase gate and its nuclear magnetic resonance implementation. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, 22-28		20
216	Experimental realization of quantum algorithms for a linear system inspired by adiabatic quantum computing. <i>Physical Review A</i> , 2019 , 99,	2.6	20
215	Complete Greenberger-Horne-Zeilinger state analyzer using hyperentanglement. <i>Quantum Information Processing</i> , 2013 , 12, 381-393	1.6	19
214	Raman gain induced mode evolution and on-demand coupling control in whispering-gallery-mode microcavities. <i>Optics Express</i> , 2015 , 23, 29573-83	3.3	19
213	Efficient entanglement purification for doubly entangled photon state. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 3464-3467		19
212	An $N/4$ fixed-point duality quantum search algorithm. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1765-1768	3.6	19
211	Search an unsorted database with quantum mechanics. <i>Frontiers of Computer Science</i> , 2007 , 1, 247-271		19
210	Nuclear magnetic dipole properties and the triaxial deformation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 533, 253-258	4.2	19
209	Experimental study of Forrelation in nuclear spins. <i>Science Bulletin</i> , 2017 , 62, 497-502	10.6	18
208	Experimental Identification of Non-Abelian Topological Orders on a Quantum Simulator. <i>Physical Review Letters</i> , 2017 , 118, 080502	7.4	18

207	Self-sustained oscillation and dynamical multistability of optomechanical systems in the extremely-large-amplitude regime. <i>Physical Review A</i> , 2015 , 91,	2.6	18
206	Experimental optimal single qubit purification in an NMR quantum information processor. <i>Scientific Reports</i> , 2014 , 4, 6857	4.9	18
205	NMRCloudQ: a quantum cloud experience on a nuclear magnetic resonance quantum computer. <i>Science Bulletin</i> , 2018 , 63, 17-23	10.6	18
204	Direct experimental simulation of the YangBaxter equation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1688	1.7	18
203	Theory of degenerate three-wave mixing using circuit QED in solid-state circuits. <i>Physical Review A</i> , 2011 , 84,	2.6	18
202	Vibrational states in superheavy nuclei. <i>Physical Review C</i> , 2008 , 77,	2.7	18
201	Complete analysis of hyperentangled Bell states assisted with auxiliary hyperentanglement. <i>Optics Express</i> , 2019 , 27, 8994-9003	3.3	18
200	Fabrication of a microtoroidal resonator with picometer precise resonant wavelength. <i>Optics Letters</i> , 2016 , 41, 3603-6	3	18
199	Experimental demonstration of a digital quantum simulation of a general PT-symmetric system. <i>Physical Review A</i> , 2019 , 99,	2.6	17
198	One-step deterministic multipartite entanglement purification with linear optics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 314-319	2.3	17
197	Measurement-induced disturbance and thermal negativity in 1D optical lattice chain. <i>Annals of Physics</i> , 2013 , 330, 192-200	2.5	17
196	Two mode photon bunching effect as witness of quantum criticality in circuit QED 2009 , 52, 1898-1905		17
195	Quantum Fourier Transform and Phase Estimation in Qudit System. <i>Communications in Theoretical Physics</i> , 2011 , 55, 790-794	2.4	17
194	Local-measurement-based quantum state tomography via neural networks. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	17
193	Quantum algorithm for solving linear differential equations: Theory and experiment. <i>Physical Review A</i> , 2020 , 101,	2.6	16
192	Rapid and high precision measurement of opto-thermal relaxation with pump-probe method. <i>Science Bulletin</i> , 2018 , 63, 287-292	10.6	16
191	Multiphoton quantum communication in quantum networks. <i>Physical Review A</i> , 2014 , 89,	2.6	16
190	Quantum simulation of quantum channels in nuclear magnetic resonance. <i>Physical Review A</i> , 2017 , 96,	2.6	16

189	Simulation of general three-body interactions in a nuclear magnetic resonance ensemble quantum computer 2008 , 51, 1089-1096		16
188	Behavior of quantum coherence of E-type four-level atom under bang-bang control. <i>Optics Communications</i> , 2008 , 281, 4793-4799	2	16
187	AnSO(3) picture for quantum searching. <i>Journal of Physics A</i> , 2001 , 34, 861-866		16
186	A comparison of the IBM-1 projections from IBM-2 and IBM-3. <i>Nuclear Physics A</i> , 1995 , 587, 101-110	1.3	16
185	Gain competition induced mode evolution and resonance control in erbium-doped whispering-gallery microresonators. <i>Optics Express</i> , 2016 , 24, 9550-60	3.3	16
184	Second-order magnetic field gradient-induced strong coupling between nitrogen-vacancy centers and a mechanical oscillator. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017 , 60, 1	3.6	15
183	ONE-PARTY QUANTUM-ERROR-CORRECTING CODES FOR UNBALANCED ERRORS: PRINCIPLES AND APPLICATION TO QUANTUM DENSE CODING AND QUANTUM SECURE DIRECT COMMUNICATION. <i>International Journal of Quantum Information</i> , 2010 , 08, 697-719	0.8	15
182	Parity effect and phase transitions in quantum Szilard engines. <i>Physical Review E</i> , 2012 , 85, 011125	2.4	15
181	Reply to Comment on Secure direct communication with a quantum one-time-pad. <i>Physical Review A</i> , 2005 , 72,	2.6	15
180	High-fidelity quantum gates on quantum-dot-confined electron spins in low-Q optical microcavities. <i>Annals of Physics</i> , 2018 , 391, 150-160	2.5	14
179	Experimental demonstration of concatenated composite pulses robustness to non-static errors. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	14
178	Optimal experimental dynamical decoupling of both longitudinal and transverse relaxations. <i>Physical Review A</i> , 2016 , 93,	2.6	14
177	Generic security analysis framework for quantum secure direct communication. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	14
176	Coherent and incoherent theories for photosynthetic energy transfer. <i>Science Bulletin</i> , 2020 , 65, 318-328	0.6	14
175	Quantum secure direct communication with entanglement source and single-photon measurement. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	14
174	Entanglement purification for memory nodes in a quantum network. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	14
173	Gain lifetime characterization through time-resolved stimulated emission in a whispering-gallery mode microresonator. <i>Nanophotonics</i> , 2018 , 8, 127-134	6.3	14
172	Quantum spacetime on a quantum simulator. <i>Communications Physics</i> , 2019 , 2,	5.4	13

171	Experimental implementation of a fixed-point duality quantum search algorithm in the nuclear magnetic resonance quantum system. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 936-941	3.6	13
170	Simulation of the four-body interaction in a nuclear magnetic resonance quantum information processor. <i>Science Bulletin</i> , 2009 , 54, 4262-4265		13
169	The relation between properties of Gentile statistics and fractional statistics of anyon. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 1565-1570	3.3	13
168	Control of state localization in a two-level quantum system. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, 66-69		13
167	Analytical expressions for electromagnetic transition rates in the SU(3) limit of the spdf interacting boson model. <i>Physical Review C</i> , 1998 , 57, 2301-2307	2.7	13
166	Shell-model matrix elements in the neutron-proton quasi-spin formalism using vector coherent states. <i>Journal of Physics A</i> , 1992 , 25, 4633-4657		13
165	Brillouin cavity optomechanics sensing with enhanced dynamical backaction. <i>Photonics Research</i> , 2019 , 7, 1440	6	13
164	Microwave transmission through an artificial atomic chain coupled to a superconducting photonic crystal. <i>Physical Review A</i> , 2019 , 99,	2.6	12
163	Superfluid density and Berezinskii-Kosterlitz-Thouless transition of a spin-orbit-coupled Fulde-Ferrell superfluid. <i>Physical Review A</i> , 2015 , 91,	2.6	12
162	Enhancement of quantum correlations between two particles under decoherence in finite-temperature environment. <i>Europhysics Letters</i> , 2014 , 106, 60003	1.6	12
161	Experimental quantum deletion in an NMR quantum information processor. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1256-1261	3.6	12
160	Minimum-Time Selective Control of Homonuclear Spins. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2018-2025	4.8	12
159	Density matrix formalism of duality quantum computer and the solution of zero-wave-function paradox. <i>Quantum Information Processing</i> , 2012 , 11, 317-323	1.6	12
158	Entanglement classification of 2000 quantum systems via the ranks of the multiple coefficient matrices. <i>Physical Review A</i> , 2013 , 87,	2.6	12
157	DOUBLING THE CAPACITY OF QUANTUM KEY DISTRIBUTION BY USING BOTH POLARIZATION AND DIFFERENTIAL PHASE SHIFT. <i>International Journal of Quantum Information</i> , 2009 , 07, 529-537	0.8	12
156	Quantum key distribution using polarization and frequency hyperentangled photons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 2072	1.7	12
155	Identification of Collective Oblate Bands in 138 Ce. <i>Chinese Physics Letters</i> , 1999 , 16, 635-637	1.8	12
154	Design and Implementation of a Practical Quantum Secure Direct Communication System 2018 ,		12

- 153 Mathematical Theory of Generalized Duality Quantum Computers Acting on Vector-States. *International Journal of Theoretical Physics*, **2013**, 52, 1751-1767 1.1 11
- 152 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 1.3 11
- 151 Collective backbending effect in the interacting boson model. *Physical Review C*, **1997**, 55, 3163-3165 2.7 11
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