

Gui-Lu Long

List of Publications by Year in Descending Order

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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	A quantum convolutional neural network on NISQ devices. <i>AAPPS Bulletin</i> , 2022 , 32, 1		5
331	A quantum circuit design of AES requiring fewer quantum qubits and gate operations. <i>Frontiers of Physics</i> , 2022 , 17, 1	3.7	1
330	Global correlation and local information flows in controllable non-Markovian open quantum dynamics. <i>Npj Quantum Information</i> , 2022 , 8,	8.6	4
329	Reconstructing unknown quantum states using variational layerwise method. <i>Frontiers of Physics</i> , 2022 , 17, 1	3.7	0
328	Realization of quantum secure direct communication over 100 km fiber with time-bin and phase quantum states.. <i>Light: Science and Applications</i> , 2022 , 11, 83	16.7	7
327	Implementations of Heralded Solid-State SWAP and $\sqrt{\text{SWAP}}$ Gates through Waveguide-Assisted Interactions. <i>Annalen Der Physik</i> , 2022 , 534, 2100373	2.6	0
326	Dual-Frequency Quantum Phase Estimation Mitigates the Spectral Leakage of Quantum Algorithms. <i>IEEE Signal Processing Letters</i> , 2022 , 1-1	3.2	
325	Quantum Secure Direct Communication with Private Dense Coding Using a General Preshared Quantum State. <i>Physical Review Applied</i> , 2022 , 17,	4.3	4
324	One-step quantum secure direct communication. <i>Science Bulletin</i> , 2021 ,	10.6	24
323	Deterministic secure quantum communication with practical devices. <i>Quantum Engineering</i> , 2021 , 3, e864.5	4.5	1
322	Generic security analysis framework for quantum secure direct communication. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	14
321	Multimode Interference Induced Optical Routing in an Optical Microcavity. <i>Annalen Der Physik</i> , 2021 , 533, 2000506	2.6	4
320	Stable states with nonzero entropy under broken PT symmetry. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
319	Low-loss and high-resolution mechanical mode tuning in microspheres. <i>Optics Letters</i> , 2021 , 46, 1592-1595		0
318	Quantum gradient algorithm for general polynomials. <i>Physical Review A</i> , 2021 , 103,	2.6	3
317	Drastic increase of channel capacity in quantum secure direct communication using masking. <i>Science Bulletin</i> , 2021 , 66, 1267-1267	10.6	22
316	Experimental Realization of Sensitivity Enhancement and Suppression with Exceptional Surfaces. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000569	8.3	9

315	Average distilled coherence without complete waste of resources. <i>Quantum Information Processing</i> , 2021 , 20, 1	1.6	
314	Collapse-in and collapse-out in partial measurement in quantum mechanics and its wise interpretation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	5
313	Microresonators in Lithium Niobate Thin Films. <i>Advanced Optical Materials</i> , 2021 , 9, 2100539	8.1	4
312	Maximum relative entropy of coherence for quantum channels. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	1
311	Loophole-free plug-and-play quantum key distribution. <i>New Journal of Physics</i> , 2021 , 23, 063058	2.9	4
310	Heralded quantum gates for hybrid systems via waveguide-mediated photon scattering. <i>Physical Review A</i> , 2021 , 104,	2.6	2
309	Optimizing a polynomial function on a quantum processor. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	6
308	Multilevel 2-D Quantum Wavelet Transforms. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	6
307	Phase-controlled dual-wavelength resonance in a self-coupling whispering-gallery-mode microcavity. <i>Optics Letters</i> , 2021 , 46, 773-776	3	6
306	Color-detuning-dynamics-based quantum sensing with dressed states driving. <i>Optics Express</i> , 2021 , 29, 5358-5366	3.3	0
305	Demonstration of Yb-doped and Er/Yb-codoped on-chip microsphere lasers. <i>Optics Express</i> , 2021 , 29, 25663-25674	3.3	2
304	Implementation of a twin-beam state-based clock synchronization system with dispersion-free HOM feedback. <i>Optics Express</i> , 2021 , 29, 28607-28618	3.3	1
303	Scalable higher-order exceptional surface with passive resonators. <i>Optics Letters</i> , 2021 , 46, 4025-4028	3	0
302	Quantum second-order optimization algorithm for general polynomials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	7
301	Roles of fiber birefringence and Raman scattering in the spontaneous four-wave mixing process through birefringent fibers. <i>Optics Express</i> , 2021 , 29, 31348-31363	3.3	
300	Optical properties of a waveguide-mediated chain of randomly positioned atoms. <i>Optics Express</i> , 2021 , 29, 1903-1917	3.3	3
299	Two-copy quantum teleportation based on GHZ measurement. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	2
298	Efficient quantum arithmetic operation circuits for quantum image processing. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	22

297	Quantum algorithm for solving linear differential equations: Theory and experiment. <i>Physical Review A</i> , 2020 , 101,	2.6	16
296	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
295	Highly Efficient Optical Add-Drop Filter With an Angle-Polished Fiber Coupler. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 71-74	2.2	3
294	Observation of information flow in the anti- π -symmetric system with nuclear spins. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	9
293	Simultaneous two-way classical communication and measurement-device-independent quantum key distribution with coherent states. <i>Physical Review A</i> , 2020 , 101,	2.6	9
292	Manipulation of optomechanically induced transparency and absorption by indirectly coupling to an auxiliary cavity mode. <i>Optics Express</i> , 2020 , 28, 580-592	3.3	9
291	Entanglement protection of Ince-Gauss modes in atmospheric turbulence using adaptive optics. <i>Optics Express</i> , 2020 , 28, 38366-38375	3.3	2
290	Frequency-tuning-induced state transfer in optical microcavities. <i>Photonics Research</i> , 2020 , 8, 490	6	8
289	Experimental free-space quantum secure direct communication and its security analysis. <i>Photonics Research</i> , 2020 , 8, 1522	6	24
288	A Full Quantum Eigensolver for Quantum Chemistry Simulations. <i>Research</i> , 2020 , 2020, 1486935	7.8	27
287	Enhanced sensitivity of optical gyroscope in a mechanical parity-time-symmetric system based on exceptional point. <i>New Journal of Physics</i> , 2020 , 22, 093009	2.9	8
286	Device-independent quantum secure direct communication against collective attacks. <i>Science Bulletin</i> , 2020 , 65, 12-20	10.6	115
285	Measurement-device-independent quantum secure direct communication. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	91
284	One-step method for preparing the experimental pure state in nuclear magnetic resonance. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	6
283	Coherent and incoherent theories for photosynthetic energy transfer. <i>Science Bulletin</i> , 2020 , 65, 318-328	10.6	14
282	Security analysis of measurement-device-independent quantum secure direct communication. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	7
281	A novel method to fabricate on-chip ultra-high-Q microtoroid resonators. <i>Optics Communications</i> , 2020 , 476, 126259	2	2
280	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

279	Entanglement purification for memory nodes in a quantum network. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	14
278	Quantum secure direct communication based on single-photon Bell-state measurement. <i>New Journal of Physics</i> , 2020 , 22, 063017	2.9	34
277	Preparation of pseudo-pure states for NMR quantum computing with one ancillary qubit. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	9
276	Experimental simulation of shift operators in a quantum processor. <i>Physical Review A</i> , 2019 , 99,	2.6	1
275	Microwave transmission through an artificial atomic chain coupled to a superconducting photonic crystal. <i>Physical Review A</i> , 2019 , 99,	2.6	12
274	Measuring holographic entanglement entropy on a quantum simulator. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	3
273	Quantum Random-Number Generator Based on Tunneling Effects in a Si Diode. <i>Physical Review Applied</i> , 2019 , 11,	4.3	4
272	Implementation and security analysis of practical quantum secure direct communication. <i>Light: Science and Applications</i> , 2019 , 8, 22	16.7	117
271	Searching nonadiabatic holonomic quantum gates via an optimization algorithm. <i>Physical Review A</i> , 2019 , 100,	2.6	9
270	Proposal to test quantum wave-particle superposition on massive mechanical resonators. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	10
269	Linear optics-based entanglement concentration protocols for cluster-type entangled coherent state. <i>Quantum Information Processing</i> , 2019 , 18, 1	1.6	4
268	Experimental demonstration of a digital quantum simulation of a general PT-symmetric system. <i>Physical Review A</i> , 2019 , 99,	2.6	17
267	Topological dynamical decoupling. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	8
266	Quantum spacetime on a quantum simulator. <i>Communications Physics</i> , 2019 , 2,	5.4	13
265	Characterization of microresonator-geometry-deformation for cavity optomechanics. <i>Optics Express</i> , 2019 , 27, 63-73	3.3	11
264	Multiple EIT and EIA in optical microresonators. <i>Optics Express</i> , 2019 , 27, 7344-7353	3.3	25
263	Complete analysis of hyperentangled Bell states assisted with auxiliary hyperentanglement. <i>Optics Express</i> , 2019 , 27, 8994-9003	3.3	18
262	Arbitrary function resonance tuner of the optical microcavity with sub-MHz resolution. <i>Optics Letters</i> , 2019 , 44, 3250-3253	3	5

261	Brillouin cavity optomechanics sensing with enhanced dynamical backaction. <i>Photonics Research</i> , 2019 , 7, 1440	6	13
260	Security of quantum secure direct communication based on Wyner's wiretap channel theory. <i>Quantum Engineering</i> , 2019 , 1, e26	4.5	42
259	Local-measurement-based quantum state tomography via neural networks. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	17
258	Experimental realization of quantum algorithms for a linear system inspired by adiabatic quantum computing. <i>Physical Review A</i> , 2019 , 99,	2.6	20
257	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
256	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
255	Entanglement measures in embedding quantum simulators with nuclear spins. <i>Physical Review A</i> , 2018 , 97,	2.6	6
254	NMRCloudQ: a quantum cloud experience on a nuclear magnetic resonance quantum computer. <i>Science Bulletin</i> , 2018 , 63, 17-23	10.6	18
253	Realistic interpretation of quantum mechanics and encounter-delayed-choice experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	25
252	Experimental realization of noise-induced adiabaticity in nuclear magnetic resonance. <i>Physical Review A</i> , 2018 , 97,	2.6	7
251	Nuclear magnetic resonance for quantum computing: Techniques and recent achievements. <i>Chinese Physics B</i> , 2018 , 27, 020308	1.2	30
250	Rapid and high precision measurement of opto-thermal relaxation with pump-probe method. <i>Science Bulletin</i> , 2018 , 63, 287-292	10.6	16
249	Single phonon source based on a giant polariton nonlinear effect. <i>Optics Letters</i> , 2018 , 43, 1163-1166	3	10
248	Photon transport mediated by an atomic chain trapped along a photonic crystal waveguide. <i>Physical Review A</i> , 2018 , 98,	2.6	25
247	Design and Implementation of a Practical Quantum Secure Direct Communication System 2018 ,		12
246	Gain lifetime characterization through time-resolved stimulated emission in a whispering-gallery mode microresonator. <i>Nanophotonics</i> , 2018 , 8, 127-134	6.3	14
245	Physicists experimentally verify the multipartite generalized Hardy's paradox. <i>Science Bulletin</i> , 2018 , 63, 1597	10.6	1
244	Demonstration of multiparty quantum clock synchronization. <i>Quantum Information Processing</i> , 2018 , 17, 1	1.6	5

243	Two-copy Quantum Teleportation. <i>Scientific Reports</i> , 2018 , 8, 13960	4.9	6
242	Efficient quantum simulation of photosynthetic light harvesting. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	39
241	Measurement-device-independent quantum communication without encryption. <i>Science Bulletin</i> , 2018 , 63, 1345-1350	10.6	86
240	Quantum State Tomography via Reduced Density Matrices. <i>Physical Review Letters</i> , 2017 , 118, 020401	7.4	28
239	Estimation on Geometric Measure of Quantum Coherence. <i>Communications in Theoretical Physics</i> , 2017 , 67, 166	2.4	28
238	Experimental study of Forrelation in nuclear spins. <i>Science Bulletin</i> , 2017 , 62, 497-502	10.6	18
237	Experimental Identification of Non-Abelian Topological Orders on a Quantum Simulator. <i>Physical Review Letters</i> , 2017 , 118, 080502	7.4	18
236	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
235	Experimental quantum Hamiltonian identification from measurement time traces. <i>Science Bulletin</i> , 2017 , 62, 863-868	10.6	21
234	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
233	Refined entanglement concentration for electron-spin entangled cluster states with quantum-dot spins in optical microcavities. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	7
232	Measurement of linear response functions in Nuclear Magnetic Resonance. <i>Scientific Reports</i> , 2017 , 7, 12797	4.9	4
231	What is the wave function in quantum mechanics?. <i>Science Bulletin</i> , 2017 , 62, 1355-1356	10.6	4
230	Accessible coherence and coherence distribution. <i>Physical Review A</i> , 2017 , 95,	2.6	22
229	Digital spiral object identification using random light. <i>Light: Science and Applications</i> , 2017 , 6, e17013	16.7	30
228	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
227	Quantum simulation of quantum channels in nuclear magnetic resonance. <i>Physical Review A</i> , 2017 , 96,	2.6	16
226	Enhancing quantum control by bootstrapping a quantum processor of 12 qubits. <i>Npj Quantum Information</i> , 2017 , 3,	8.6	49

225	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
224	Entanglement monogamy in three qutrit systems. <i>Scientific Reports</i> , 2017 , 7, 1946	4.9	3
223	Quantum Secure Direct Communication: Principles, Current Status, Perspectives 2017 ,		7
222	Realization of the Algorithm for System of Linear Equations in Duality Quantum Computing 2017 ,		6
221	Quantum memory and non-demolition measurement of single phonon state with nitrogen-vacancy centers ensemble. <i>Optics Express</i> , 2017 , 25, 30149-30161	3.3	5
220	Quantum Computing. <i>Scientia Sinica Informationis</i> , 2017 , 47, 1277-1299	2.3	3
219	Quantum communication scheme based on quantum teleportation. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017 , 66, 230303	0.6	10
218	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
217	Tomography is Necessary for Universal Entanglement Detection with Single-Copy Observables. <i>Physical Review Letters</i> , 2016 , 116, 230501	7.4	30
216	Optimal experimental dynamical decoupling of both longitudinal and transverse relaxations. <i>Physical Review A</i> , 2016 , 93,	2.6	14
215	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
214	General hyperconcentration of photonic polarization-time-bin hyperentanglement assisted by nitrogen-vacancy centers coupled to resonators. <i>Scientific Reports</i> , 2016 , 6, 35922	4.9	8
213	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
212	Variance-based uncertainty relations for incompatible observables. <i>Quantum Information Processing</i> , 2016 , 15, 3909-3917	1.6	24
211	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
210	Study of a monogamous entanglement measure for three-qubit quantum systems. <i>Quantum Information Processing</i> , 2016 , 15, 2405-2424	1.6	3
209	Multiphoton Controllable Transport between Remote Resonators. <i>Entropy</i> , 2016 , 18, 179	2.8	1
208	Duality quantum algorithm efficiently simulates open quantum systems. <i>Scientific Reports</i> , 2016 , 6, 30727	4.9	34

207	Deterministic error correction for nonlocal spatial-polarization hyperentanglement. <i>Scientific Reports</i> , 2016 , 6, 20677	4.9	11
206	Duality quantum computer and the efficient quantum simulations. <i>Quantum Information Processing</i> , 2016 , 15, 1189-1212	1.6	32
205	Sum uncertainty relations based on Wigner-Yanase skew information. <i>Quantum Information Processing</i> , 2016 , 15, 2639-2648	1.6	22
204	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
203	Hyperparallel optical quantum computation assisted by atomic ensembles embedded in double-sided optical cavities. <i>Physical Review A</i> , 2016 , 94,	2.6	58
202	Experimental quantum secure direct communication with single photons. <i>Light: Science and Applications</i> , 2016 , 5, e16144	16.7	233
201	Remote creation of quantum coherence. <i>Physical Review A</i> , 2016 , 94,	2.6	11
200	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
199	Fabrication of a microtoroidal resonator with picometer precise resonant wavelength. <i>Optics Letters</i> , 2016 , 41, 3603-6	3	18
198	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
197	High-dimensional quantum state transfer in a noisy network environment. <i>Chinese Physics B</i> , 2015 , 24, 040305	1.2	9
196	Three-pathway electromagnetically induced transparency in coupled-cavity optomechanical system. <i>Optics Express</i> , 2015 , 23, 11508-17	3.3	55
195	Quantum ratchet with photons. <i>Science Bulletin</i> , 2015 , 60, 278	10.6	5
194	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
193	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
192	Universal photonic quantum gates assisted by ancilla diamond nitrogen-vacancy centers coupled to resonators. <i>Physical Review A</i> , 2015 , 91,	2.6	25
191	An Alternative Adiabatic Quantum Algorithm for the Hamiltonian Cycle Problem. <i>Communications in Theoretical Physics</i> , 2015 , 63, 554-558	2.4	2
190	Engineering optomechanical normal modes for single-phonon transfer and entanglement preparation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 588	1.7	7

189	Realization of an entanglement-assisted quantum delayed-choice experiment. <i>Physical Review A</i> , 2015 , 92,	2.6	22
188	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
187	One-step resonant controlled-phase gate on distant transmon qutrits in different 1D superconducting resonators. <i>Scientific Reports</i> , 2015 , 5, 14541	4.9	9
186	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
185	Chip-based silica microspheres for cavity optomechanics. <i>Optics Express</i> , 2015 , 23, 27260-5	3.3	29
184	Minimum-Time Selective Control of Homonuclear Spins. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2018-2025	4.8	12
183	Experimental digital quantum simulation of temporal-spatial dynamics of interacting fermion system. <i>Science Bulletin</i> , 2015 , 60, 241-248	10.6	30
182	Highly efficient hyperentanglement concentration with two steps assisted by quantum swap gates. <i>Scientific Reports</i> , 2015 , 5, 16444	4.9	31
181	Nano-partical sensing based on Raman laser in the whispering gallery mode microresonators. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 164212	0.6	2
180	Universal nonadiabatic geometric gates in two-qubit decoherence-free subspaces. <i>Scientific Reports</i> , 2014 , 4, 6814	4.9	54
179	Experimental optimal single qubit purification in an NMR quantum information processor. <i>Scientific Reports</i> , 2014 , 4, 6857	4.9	18
178	Detection of anyon braiding and identification of anyon entangled states in optical microcavities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 410, 88-93	3.3	3
177	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
176	Gapless topological Fulde-Ferrell superfluidity in spin-orbit coupled Fermi gases. <i>Physical Review Letters</i> , 2014 , 113, 115302	7.4	35
175	Enhancement of quantum correlations between two particles under decoherence in finite-temperature environment. <i>Europhysics Letters</i> , 2014 , 106, 60003	1.6	12
174	Experimental quantum deletion in an NMR quantum information processor. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1256-1261	3.6	12
173	Multiphoton quantum communication in quantum networks. <i>Physical Review A</i> , 2014 , 89,	2.6	16
172	Thermodynamic properties of Heisenberg magnetic systems. <i>Chinese Physics B</i> , 2014 , 23, 037502	1.2	3

171	Band-selective shaped pulse for high fidelity quantum control in diamond. <i>Applied Physics Letters</i> , 2014 , 104, 262403	3.4	4
170	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
169	Dynamic Fano-like resonances in erbium-doped whispering-gallery-mode microresonators. <i>Applied Physics Letters</i> , 2014 , 105, 101112	3.4	53
168	Protecting geometric gates by dynamical decoupling. <i>Physical Review A</i> , 2014 , 90,	2.6	40
167	Characterizing Quantum Correlations in Arbitrary-Dimensional Bipartite Systems Using Hurwitz's Theory. <i>Communications in Theoretical Physics</i> , 2014 , 61, 273-280	2.4	4
166	Parity-time-symmetric whispering-gallery microcavities. <i>Nature Physics</i> , 2014 , 10, 394-398	16.2	1394
165	Decoherent dynamics of quantum correlations in qubit-qutrit systems. <i>Quantum Information Processing</i> , 2013 , 12, 3421-3435	1.6	28
164	Entanglement of linear cluster states in terms of averaged entropies. <i>Science Bulletin</i> , 2013 , 58, 48-52		25
163	Experimental simulation of anyonic fractional statistics with an NMR quantum-information processor. <i>Physical Review A</i> , 2013 , 88,	2.6	23
162	Mathematical Theory of Generalized Duality Quantum Computers Acting on Vector-States. <i>International Journal of Theoretical Physics</i> , 2013 , 52, 1751-1767	1.1	11
161	Complete Greenberger-Horne-Zeilinger state analyzer using hyperentanglement. <i>Quantum Information Processing</i> , 2013 , 12, 381-393	1.6	19
160	Measurement-induced disturbance and thermal negativity in 1D optical lattice chain. <i>Annals of Physics</i> , 2013 , 330, 192-200	2.5	17
159	Quantum correlation dynamics of a three-qubit system coupled to an XY spin chain. <i>European Physical Journal D</i> , 2013 , 67, 1	1.3	7
158	Quantifying entanglement of arbitrary-dimensional multipartite pure states in terms of the singular values of coefficient matrices. <i>Physical Review A</i> , 2013 , 87,	2.6	7
157	Stronger Criteria for Nonseparability in n-Partite Quantum States. <i>International Journal of Theoretical Physics</i> , 2013 , 52, 699-705	1.1	1
156	Experimental realization of nonadiabatic holonomic quantum computation. <i>Physical Review Letters</i> , 2013 , 110, 190501	7.4	297
155	High-dimensional quantum state transfer through a quantum spin chain. <i>Physical Review A</i> , 2013 , 87,	2.6	45
154	Hybrid entanglement purification for quantum repeaters. <i>Physical Review A</i> , 2013 , 88,	2.6	90

153	Direct experimental simulation of the Yang-Baxter equation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1688	1.7	18
152	Quantum Secure Direct Communication 2013 ,		2
151	Entanglement classification of 2000 quantum systems via the ranks of the multiple coefficient matrices. <i>Physical Review A</i> , 2013 , 87,	2.6	12
150	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
149	Effect of Transverse Correlation Function on the Thermodynamic Quantities of Ferromagnetic Systems. <i>Communications in Theoretical Physics</i> , 2013 , 59, 494-502	2.4	4
148	Entanglement generation with coherent states using cross-Kerr nonlinearity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2393	1.7	7
147	NMR realization of adiabatic quantum algorithms for the modified Simon problem. <i>Physical Review A</i> , 2013 , 88,	2.6	10
146	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
145	Experimental simulation of quantum tunneling in small systems. <i>Scientific Reports</i> , 2013 , 3, 2232	4.9	20
144	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
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