

Bi-Heng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,857
citations

218677

26
h-index

182427

51
g-index

80
all docs

80
docs citations

80
times ranked

2309
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental one-step deterministic polarization entanglement purification. <i>Science Bulletin</i> , 2022, 67, 593-597.	9.0	30
2	On-chip path encoded photonic quantum Toffoli gate. <i>Photonics Research</i> , 2022, 10, 1533.	7.0	18
3	Entanglement Swapping and Quantum Correlations via Symmetric Joint Measurements. <i>Physical Review Letters</i> , 2022, 129, .	7.8	16
4	Long-Distance Entanglement Purification for Quantum Communication. <i>Physical Review Letters</i> , 2021, 126, 010503.	7.8	129
5	Experimental observation of quantum nonlocality in general networks with different topologies. <i>Fundamental Research</i> , 2021, 1, 22-26.	3.3	6
6	Spontaneous Parametric Down-Conversion Sources for Multiphoton Experiments. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000132.	3.9	27
7	Experimental Demonstration of Instrument-Specific Quantum Memory Effects and Non-Markovian Process Recovery for Common-Cause Processes. <i>Physical Review Letters</i> , 2021, 126, 230401.	7.8	7
8	Nonlocality, Steering, and Quantum State Tomography in a Single Experiment. <i>Physical Review Letters</i> , 2021, 127, 020401.	7.8	10
9	Pathways for Entanglement-Based Quantum Communication in the Face of High Noise. <i>Physical Review Letters</i> , 2021, 127, 110505.	7.8	27
10	Optimized Detection of High-Dimensional Entanglement. <i>Physical Review Letters</i> , 2021, 127, 220501.	7.8	4
11	Observation of the tradeoff between internal quantum nonseparability and external classical correlations. <i>Physical Review A</i> , 2021, 104, .	2.5	1
12	Distribution of high-dimensional orbital angular momentum entanglement over a 1-km few-mode fiber. <i>Optica</i> , 2020, 7, 232.	9.3	59
13	Experimental High-Dimensional Quantum Teleportation. <i>Physical Review Letters</i> , 2020, 125, 230501.	7.8	109
14	Experimental creation of multi-photon high-dimensional layered quantum states. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	16
15	Efficient Generation of High-Dimensional Entanglement through Multipath Down-Conversion. <i>Physical Review Letters</i> , 2020, 125, 090503.	7.8	49
16	Experimental realization of high-fidelity teleportation via a non-Markovian open quantum system. <i>Physical Review A</i> , 2020, 102, .	2.5	13
17	Measurement-device-independent quantification of irreducible high-dimensional entanglement. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	6
18	Metalens-array-based high-dimensional and multiphoton quantum source. <i>Science</i> , 2020, 368, 1487-1490.	12.6	239

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19	Experimental Transmission of Quantum Information Using a Superposition of Causal Orders. Physical Review Letters, 2020, 124, 030502.	7.8	79
20	Efficient distribution of high-dimensional entanglement through 11km fiber. Optica, 2020, 7, 738.	9.3	42
21	Demonstrating Quantum Coherence and Metrology that is Resilient to Transversal Noise. Physical Review Letters, 2019, 123, 180504.	7.8	24
22	Experimental Measurement-Device-Independent Quantum Steering and Randomness Generation Beyond Qubits. Physical Review Letters, 2019, 123, 170402.	7.8	36
23	Experimental certification for nonclassical teleportation. Quantum Engineering, 2019, 1, e13.	2.5	28
24	Experimental test of fine-grained entropic uncertainty relation in the presence of quantum memory. Scientific Reports, 2019, 9, 8748.	3.3	16
25	Entanglement Detection by Violations of Noisy Uncertainty Relations: A Proof of Principle. Physical Review Letters, 2019, 122, 220401.	7.8	12
26	Arbitrary two-particle high-dimensional Bell-state measurement by auxiliary entanglement. Physical Review A, 2019, 99, .	2.5	21
27	Advances in Quantum Dense Coding. Advanced Quantum Technologies, 2019, 2, 1900011.	3.9	47
28	Realization of entanglement-assisted weak-value amplification in a photonic system. Physical Review A, 2019, 99, .	2.5	5
29	Experimental demonstration of robust self-testing for bipartite entangled states. Npj Quantum Information, 2019, 5, .	6.7	20
30	Experimental realization of sequential weak measurements of non-commuting Pauli observables. Optics Express, 2019, 27, 6089.	3.4	19
31	Polarization nondegenerate fiber Fabry-Perot cavities with large tunable splittings. Applied Physics Letters, 2018, 112, .	3.3	9
32	Observation of Stronger-than-Binary Correlations with Entangled Photonic Qutrits. Physical Review Letters, 2018, 120, 180402.	7.8	18
33	Universal Photonic Quantum Interface for a Quantum Network. Physical Review Applied, 2018, 10, .	3.8	9
34	Experimental test of the trade-off relation for quantum coherence. Physical Review A, 2018, 98, .	2.5	20
35	Experimental implementation of fully controlled dephasing dynamics and synthetic spectral densities. Nature Communications, 2018, 9, 3453.	12.8	43
36	Simultaneous observation of quantum contextuality and quantum nonlocality. Science Bulletin, 2018, 63, 1092-1095.	9.0	6

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37	Beating the channel capacity limit for superdense coding with entangled ququarts. <i>Science Advances</i> , 2018, 4, eaat9304.	10.3	119
38	Experimental witness of genuine high-dimensional entanglement. <i>Physical Review A</i> , 2018, 97, .	2.5	14
39	Experimental realization of path-polarization hybrid high-dimensional pure state. <i>Optics Express</i> , 2018, 26, 28918.	3.4	10
40	Quantum gambling based on Nash-equilibrium. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	10
41	Detecting metrologically useful asymmetry and entanglement by a few local measurements. <i>Physical Review A</i> , 2017, 96, .	2.5	37
42	Generation and applications of an ultrahigh-fidelity four-photon Greenberger-Horne-Zeilinger state. <i>Optics Express</i> , 2016, 24, 27059.	3.4	15
43	Experimental test of genuine multipartite nonlocality under the no-signalling principle. <i>Scientific Reports</i> , 2016, 6, 39327.	3.3	10
44	Experimental Demonstration of a Hybrid-Quantum-Emitter Producing Individual Entangled Photon Pairs in the Telecom Band. <i>Scientific Reports</i> , 2016, 6, 26680.	3.3	3
45	Time-invariant entanglement and sudden death of nonlocality. <i>Physical Review A</i> , 2016, 94, .	2.5	17
46	Efficient superdense coding in the presence of non-Markovian noise. <i>Europhysics Letters</i> , 2016, 114, 10005.	2.0	46
47	Experimental creation of superposition of unknown photonic quantum states. <i>Physical Review A</i> , 2016, 94, .	2.5	13
48	Experimental investigation of the no-signalling principle in parity-time symmetric theory using an open quantum system. <i>Nature Photonics</i> , 2016, 10, 642-646.	31.4	70
49	Nonlocality from Local Contextuality. <i>Physical Review Letters</i> , 2016, 117, 220402.	7.8	26
50	Experimental generation of a high-fidelity four-photon linear cluster state. <i>Physical Review A</i> , 2016, 93, .	2.5	10
51	Experimental demonstration of genuine multipartite quantum nonlocality without shared reference frames. <i>Physical Review A</i> , 2016, 93, .	2.5	4
52	Experimental Test of Compatibility-Loophole-Free Contextuality with Spatially Separated Entangled Qutrits. <i>Physical Review Letters</i> , 2016, 117, 170403.	7.8	53
53	Experimental verification of genuine multipartite entanglement without shared reference frames. <i>Science Bulletin</i> , 2016, 61, 714-719.	9.0	22
54	Generation of Nondegenerate Narrow-Band Photon Pairs for a Hybrid Quantum Network. <i>Physical Review Applied</i> , 2015, 4, .	3.8	4

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55	Experimental Greenberger-Horne-Zeilinger-Type Six-Photon Quantum Nonlocality. <i>Physical Review Letters</i> , 2015, 115, 260402.	7.8	72
56	High visibility on-chip quantum interference of single surface plasmons. , 2015, , .		0
57	Multiuser-to-multiuser entanglement distribution based on 1550 nm polarization-entangled photons. <i>Science Bulletin</i> , 2015, 60, 1128-1132.	9.0	64
58	Propagation of quantum signal in plasmonic waveguides. , 2015, , .		0
59	High-Visibility On-Chip Quantum Interference of Single Surface Plasmons. <i>Physical Review Applied</i> , 2014, 2, .	3.8	52
60	Photonic realization of nonlocal memory effects and non-Markovian quantum probes. <i>Scientific Reports</i> , 2013, 3, .	3.3	81
61	Experimental test of state-independent quantum contextuality of an indivisible quantum system. <i>Physical Review A</i> , 2013, 87, .	2.5	20
62	Experimental generation of an eight-photon Greenbergerâ€“Horneâ€“Zeilinger state. <i>Nature Communications</i> , 2011, 2, 546.	12.8	148
63	Experimental control of the transition from Markovian to non-Markovian dynamics of open quantum systems. <i>Nature Physics</i> , 2011, 7, 931-934.	16.7	442
64	Experimental demonstration of decoherence-induced spontaneous symmetry breaking. <i>Physical Review A</i> , 2011, 83, .	2.5	1
65	Experimental Demonstration of Largeness in Bipartite Entanglement Sudden Death. <i>Chinese Physics Letters</i> , 2011, 28, 070308.	3.3	1
66	Spectrum Analysis of a Pulsed Photon Source Generated from Periodically Poled Lithium Niobate. <i>Chinese Physics Letters</i> , 2011, 28, 074212.	3.3	0
67	Implementation of one-dimensional quantum walks on spin-orbital angular momentum space of photons. <i>Physical Review A</i> , 2010, 81, .	2.5	39
68	Investigation of the role of indistinguishability in photon bunching and stimulated emission. <i>Physical Review A</i> , 2009, 79, .	2.5	8
69	Observation of a generalized bunching effect of six photons. <i>Optics Letters</i> , 2009, 34, 1297.	3.3	20
70	Experimental demonstration of quantum contextuality with nonentangled photons. <i>Physical Review A</i> , 2009, 80, .	2.5	40
71	Linear optical implementation of perfect discrimination between single-bit unitary operations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 195501.	1.5	9
72	Experimental demonstration of phase measurement precision beating standard quantum limit by projection measurement. <i>Europhysics Letters</i> , 2008, 82, 24001.	2.0	53

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73	Demonstration of controllable temporal distinguishability in a three-photon state. Europhysics Letters, 2007, 77, 24003.	2.0	17
74	Four-photon interference with asymmetric beam splitters. Optics Letters, 2007, 32, 1320.	3.3	27
75	Demonstration of one-dimensional quantum random walks using orbital angular momentum of photons. Physical Review A, 2007, 75, .	2.5	55
76	Preparation of multi-photon states without optical interferometers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 389-392.	2.1	1
77	Rotation of polarization of a multiphoton state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 291-294.	2.1	2
78	Experimental investigation of the no-signalling principle in parityâ€time symmetric theory using an open quantum system. , 0, .		1