

Xiongfeng

List of Publications by Year in descending order

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105
papers

9,090
citations

53660

45
h-index

39575

94
g-index

107
all docs

107
docs citations

107
times ranked

3244
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental exploration of five-qubit quantum error-correcting code with superconducting qubits. National Science Review, 2022, 9, nwab011.	4.6	22
2	Quantum Network: Security Assessment and Key Management. IEEE/ACM Transactions on Networking, 2022, 30, 1328-1339.	2.6	16
3	Experimental Realization of Device-Independent Quantum Randomness Expansion. Physical Review Letters, 2021, 126, 050503.	2.9	29
4	Efficient entanglement generation and detection of generalized stabilizer states. Physical Review A, 2021, 103, .	1.0	4
5	Reference-Frame-Independent Design of Phase-Matching Quantum Key Distribution. Physical Review Applied, 2021, 16, .	1.5	12
6	Implementation of a 46-node quantum metropolitan area network. Npj Quantum Information, 2021, 7, .	2.8	39
7	Implementation of repeaterless quantum key distribution over 502 km fibers. , 2020, , .		1
8	Phase-Matching Quantum Cryptographic Conferencing. Physical Review Applied, 2020, 14, .	1.5	21
9	Symmetry-Protected Privacy: Beating the Rate-Distance Linear Bound Over a Noisy Channel. Physical Review Applied, 2020, 13, .	1.5	35
10	Randomness Expansion Secured by Quantum Contextuality. Physical Review Applied, 2020, 13, .	1.5	10
11	Implementation of quantum key distribution surpassing the linear rate-transmittance bound. Nature Photonics, 2020, 14, 422-425.	15.6	130
12	Secure quantum key distribution with realistic devices. Reviews of Modern Physics, 2020, 92, .	16.4	733
13	Experimental random-party entanglement distillation via weak measurement. Physical Review Research, 2020, 2, .	1.3	2
14	Detecting multipartite entanglement structure with minimal resources. Npj Quantum Information, 2019, 5, .	2.8	29
15	Quantum Coherence and Intrinsic Randomness. Advanced Quantum Technologies, 2019, 2, 1900053.	1.8	13
16	Quantum Coherence Witness with Untrusted Measurement Devices. Physical Review Letters, 2019, 123, 090502.	2.9	13
17	Operational interpretation of coherence in quantum key distribution. Physical Review A, 2019, 99, .	1.0	27
18	Efficient and robust detection of multipartite Greenberger-Horne-Zeilinger-like states. Physical Review A, 2019, 99, .	1.0	6

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19	Decomposition of a symmetric multipartite observable. <i>Physical Review A</i> , 2019, 99, .	1.0	10
20	Unification of quantum resources in distributed scenarios. <i>Physical Review A</i> , 2019, 99, .	1.0	8
21	Coherence as a resource for source-independent quantum random-number generation. <i>Physical Review A</i> , 2019, 99, .	1.0	20
22	Experimental measurement-dependent local Bell test with human free will. <i>Physical Review A</i> , 2019, 99, .	1.0	2
23	Quantum random number generation with uncharacterized laser and sunlight. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	19
24	Quantum key distribution and beyond: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, QKD1.	0.9	9
25	One-Shot Coherence Dilution. <i>Physical Review Letters</i> , 2018, 120, 070403.	2.9	63
26	Unification of nonclassicality measures in interferometry. <i>Physical Review A</i> , 2018, 97, .	1.0	11
27	High-Speed Device-Independent Quantum Random Number Generation without a Detection Loophole. <i>Physical Review Letters</i> , 2018, 120, 010503.	2.9	85
28	Preface: Quantum coherence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 410301.	0.7	1
29	Randomness quantification of coherent detection. <i>Physical Review A</i> , 2018, 98, .	1.0	10
30	Device-independent quantum random-number generation. <i>Nature</i> , 2018, 562, 548-551.	13.7	154
31	Security Level and Information Flow in a Quantum Key Distribution Network. , 2018, , .		0
32	Entanglement Structure: Entanglement Partitioning in Multipartite Systems and Its Experimental Detection Using Optimizable Witnesses. <i>Physical Review X</i> , 2018, 8, .	2.8	23
33	Challenging local realism with human choices. <i>Nature</i> , 2018, 557, 212-216.	13.7	136
34	Phase-Matching Quantum Key Distribution. <i>Physical Review X</i> , 2018, 8, .	2.8	171
35	Test of Local Realism into the Past without Detection and Locality Loopholes. <i>Physical Review Letters</i> , 2018, 121, 080404.	2.9	58
36	Entanglement swapping with independent sources over an optical-fiber network. <i>Physical Review A</i> , 2017, 95, .	1.0	16

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37	Direct counterfactual communication via quantum Zeno effect. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4920-4924.	3.3	68
38	Practical round-robin differential-phase-shift quantum key distribution. New Journal of Physics, 2017, 19, 033013.	1.2	20
39	Quantum uncertainty relation using coherence. Physical Review A, 2017, 96, .	1.0	54
40	Experimental Blind Quantum Computing for a Classical Client. Physical Review Letters, 2017, 119, 050503.	2.9	68
41	Space-to-Ground Quantum Key Distribution Using a Small-Sized Payload on Tiangong-2 Space Lab. Chinese Physics Letters, 2017, 34, 090302.	1.3	48
42	Experimental measurement-device-independent quantum digital signatures over a metropolitan network. Physical Review A, 2017, 95, .	1.0	52
43	Random Number Generation with Cosmic Photons. Physical Review Letters, 2017, 118, 140402.	2.9	18
44	Improved key-rate bounds for practical decoy-state quantum-key-distribution systems. Physical Review A, 2017, 95, .	1.0	100
45	Polynomial measure of coherence. New Journal of Physics, 2017, 19, 123033.	1.2	6
46	Observation of ten-photon entanglement using thin BiB ₃ O ₆ crystals. Optica, 2017, 4, 77.	4.8	52
47	Experimental measurement-device-independent quantum random-number generation. Physical Review A, 2016, 94, .	1.0	46
48	Quantum random number generation. Npj Quantum Information, 2016, 2, .	2.8	233
49	Note: Fully integrated 3.2 Gbps quantum random number generator with real-time extraction. Review of Scientific Instruments, 2016, 87, 076102.	0.6	41
50	Simulating single photons with realistic photon sources. Physical Review A, 2016, 94, .	1.0	20
51	Performance of device-independent quantum key distribution. Physical Review A, 2016, 94, .	1.0	7
52	Efficient measurement-device-independent detection of multipartite entanglement structure. Physical Review A, 2016, 94, .	1.0	13
53	Experimental quantum data locking. Physical Review A, 2016, 94, .	1.0	16
54	Secret Sharing of a Quantum State. Physical Review Letters, 2016, 117, 030501.	2.9	65

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55	Experimental round-robin differential phase-shift quantum key distribution. Physical Review A, 2016, 93, .	1.0	40
56	Reliable and robust entanglement witness. Physical Review A, 2016, 93, .	1.0	9
57	Experimental Quantum Randomness Processing Using Superconducting Qubits. Physical Review Letters, 2016, 117, 010502.	2.9	18
58	Measurement-Device-Independent Quantum Key Distribution over Untrustful Metropolitan Network. Physical Review X, 2016, 6, .	2.8	120
59	Source-Independent Quantum Random Number Generation. Physical Review X, 2016, 6, .	2.8	81
60	Randomness generation based on spontaneous emissions of lasers. Physical Review A, 2015, 91, .	1.0	35
61	Clouser-Horne Bell test with imperfect random inputs. Physical Review A, 2015, 92, .	1.0	6
62	Intrinsic randomness as a measure of quantum coherence. Physical Review A, 2015, 92, .	1.0	320
63	Loss-tolerant measurement-device-independent quantum random number generation. New Journal of Physics, 2015, 17, 125011.	1.2	68
64	Experimental Passive Round-Robin Differential Phase-Shift Quantum Key Distribution. Physical Review Letters, 2015, 114, 180502.	2.9	82
65	Security of quantum key distribution using a simplified trusted relay. Physical Review A, 2015, 91, .	1.0	19
66	Randomness requirement on the Clauser-Horne-Shimony-Holt Bell test in the multiple-run scenario. Physical Review A, 2015, 91, .	1.0	19
67	Discrete-phase-randomized coherent state source and its application in quantum key distribution. New Journal of Physics, 2015, 17, 053014.	1.2	67
68	Field Test of Measurement-Device-Independent Quantum Key Distribution. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 116-122.	1.9	30
69	Experimental passive decoy-state quantum key distribution. Laser Physics Letters, 2014, 11, 085202.	0.6	22
70	Practical and fast quantum random number generation based on photon arrival time relative to external reference. Applied Physics Letters, 2014, 104, .	1.5	87
71	Implementation of a Measurement-Device-Independent Entanglement Witness. Physical Review Letters, 2014, 112, 140506.	2.9	44
72	Mismatched-basis statistics enable quantum key distribution with uncharacterized qubit sources. Physical Review A, 2014, 90, .	1.0	53

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73	Measurement-Device-Independent Quantum Key Distribution over 200Åkm. Physical Review Letters, 2014, 113, 190501.	2.9	220
74	Memory-assisted measurement-device-independent quantum key distribution. New Journal of Physics, 2014, 16, 043005.	1.2	72
75	Decoy-state quantum key distribution with biased basis choice. Scientific Reports, 2013, 3, 2453.	1.6	35
76	Measurement-device-independent quantum key distribution with uncharacterized qubit sources. Physical Review A, 2013, 88, .	1.0	57
77	Experimental Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2013, 111, 130502.	2.9	344
78	Postprocessing for quantum random-number generators: Entropy evaluation and randomness extraction. Physical Review A, 2013, 87, .	1.0	153
79	Entanglement-based quantum key distribution with biased basis choice via free space. Optics Express, 2013, 21, 27260.	1.7	33
80	Source attack of decoy-state quantum key distribution using phase information. Physical Review A, 2013, 88, .	1.0	100
81	Ultrafast quantum random number generation based on quantum phase fluctuations. Optics Express, 2012, 20, 12366.	1.7	158
82	Quantum key distribution with delayed privacy amplification and its application to the security proof of a two-way deterministic protocol. Physical Review A, 2012, 85, .	1.0	26
83	Alternative schemes for measurement-device-independent quantum key distribution. Physical Review A, 2012, 86, .	1.0	183
84	Statistical fluctuation analysis for measurement-device-independent quantum key distribution. Physical Review A, 2012, 86, .	1.0	170
85	Unconditional security proof of a deterministic quantum key distribution with a two-way quantum channel. Physical Review A, 2011, 84, .	1.0	54
86	Universally composable and customizable post-processing for practical quantum key distribution. Computers and Security, 2011, 30, 172-177.	4.0	30
87	Efficient heralding of photonic qubits with applications to device-independent quantum key distribution. Physical Review A, 2011, 84, .	1.0	56
88	Passive sources for the Bennett-Brassard 1984 quantum-key-distribution protocol with practical signals. Physical Review A, 2010, 82, .	1.0	17
89	Passive decoy-state quantum key distribution with practical light sources. Physical Review A, 2010, 81, .	1.0	67
90	Practical issues in quantum-key-distribution postprocessing. Physical Review A, 2010, 81, .	1.0	139

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91	Upper bounds for the secure key rate of the decoy-state quantum key distribution. Physical Review A, 2009, 79, .	1.0	7
92	Entangled quantum key distribution with a biased basis choice. New Journal of Physics, 2009, 11, 045025.	1.2	20
93	Non-Poissonian statistics from Poissonian light sources with application to passive decoy state quantum key distribution. Optics Letters, 2009, 34, 3238.	1.7	56
94	Experimental quantum-key distribution with an untrusted source. Optics Letters, 2008, 33, 2077.	1.7	31
95	Quantum key distribution with triggering parametric down-conversion sources. New Journal of Physics, 2008, 10, 073018.	1.2	59
96	Dual detectors scheme in practical quantum key distribution systems. , 2007, , .		0
97	Quantum key distribution with dual detectors. Physical Review A, 2007, 75, .	1.0	32
98	Quantum hacking: attacking practical quantum key distribution systems. Proceedings of SPIE, 2007, , .	0.8	0
99	Improve the efficiency of a practical quantum key distribution system. , 2007, , .		0
100	Quantum key distribution with entangled photon sources. Physical Review A, 2007, 76, .	1.0	185
101	Experimental Quantum Key Distribution with Decoy States. Physical Review Letters, 2006, 96, 070502.	2.9	292
102	Unconditional security at a low cost. Physical Review A, 2006, 74, .	1.0	8
103	Decoy-state quantum key distribution with two-way classical postprocessing. Physical Review A, 2006, 74, .	1.0	55
104	Decoy State Quantum Key Distribution. Physical Review Letters, 2005, 94, 230504.	2.9	1,658
105	Practical decoy state for quantum key distribution. Physical Review A, 2005, 72, .	1.0	785