

# Feihu Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

6,205  
citations

76326

40  
h-index

74163

75  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2914  
citing authors

#	ARTICLE	IF	CITATIONS
1	Secure quantum key distribution with realistic devices. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	733
2	An integrated space-to-ground quantum communication network over 4,600 kilometres. <i>Nature</i> , 2021, 589, 214-219.	27.8	415
3	Entanglement-based secure quantum cryptography over 1,120 kilometres. <i>Nature</i> , 2020, 582, 501-505.	27.8	350
4	Finite-key analysis for measurement-device-independent quantum key distribution. <i>Nature Communications</i> , 2014, 5, 3732.	12.8	303
5	Experimental Demonstration of Polarization Encoding Measurement-Device-Independent Quantum Key Distribution. <i>Physical Review Letters</i> , 2014, 112, 190503.	7.8	272
6	Concise security bounds for practical decoy-state quantum key distribution. <i>Physical Review A</i> , 2014, 89, .	2.5	248
7	Experimental demonstration of phase-remapping attack in a practical quantum key distribution system. <i>New Journal of Physics</i> , 2010, 12, 113026.	2.9	247
8	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. <i>Nature Photonics</i> , 2019, 13, 839-842.	31.4	196
9	Photon-efficient imaging with a single-photon camera. <i>Nature Communications</i> , 2016, 7, 12046.	12.8	169
10	Continuous-variable measurement-device-independent quantum key distribution. <i>Physical Review A</i> , 2014, 89, .	2.5	164
11	Protocol choice and parameter optimization in decoy-state measurement-device-independent quantum key distribution. <i>Physical Review A</i> , 2014, 89, .	2.5	159
12	Ultrafast quantum random number generation based on quantum phase fluctuations. <i>Optics Express</i> , 2012, 20, 12366.	3.4	158
13	Postprocessing for quantum random-number generators: Entropy evaluation and randomness extraction. <i>Physical Review A</i> , 2013, 87, .	2.5	153
14	Large scale quantum key distribution: challenges and solutions [Invited]. <i>Optics Express</i> , 2018, 26, 24260.	3.4	148
15	Single-photon imaging over 200 km. <i>Optica</i> , 2021, 8, 344.	9.3	148
16	Practical aspects of measurement-device-independent quantum key distribution. <i>New Journal of Physics</i> , 2013, 15, 113007.	2.9	128
17	Single-photon computational 3D imaging at 45 km. <i>Photonics Research</i> , 2020, 8, 1532.	7.0	119
18	Silicon photonic transmitter for polarization-encoded quantum key distribution. <i>Optica</i> , 2016, 3, 1274.	9.3	110

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19	High-Speed Measurement-Device-Independent Quantum Key Distribution with Integrated Silicon Photonics. <i>Physical Review X</i> , 2020, 10, .	8.9	102
20	Experimental quantum repeater without quantum memory. <i>Nature Photonics</i> , 2019, 13, 644-648.	31.4	93
21	Experimental Quantum Switching for Exponentially Superior Quantum Communication Complexity. <i>Physical Review Letters</i> , 2019, 122, 120504.	7.8	82
22	Super-resolution single-photon imaging at 8.2 kilometers. <i>Optics Express</i> , 2020, 28, 4076.	3.4	78
23	Experimental Demonstration of High-Rate Measurement-Device-Independent Quantum Key Distribution over Asymmetric Channels. <i>Physical Review Letters</i> , 2019, 122, 160501.	7.8	72
24	Quantum-memory-assisted multi-photon generation for efficient quantum information processing. <i>Optica</i> , 2017, 4, 1034.	9.3	71
25	Distributed quantum phase estimation with entangled photons. <i>Nature Photonics</i> , 2021, 15, 137-142.	31.4	71
26	Experimental quantum key distribution with source flaws. <i>Physical Review A</i> , 2015, 92, .	2.5	69
27	Experimental quantum fingerprinting with weak coherent pulses. <i>Nature Communications</i> , 2015, 6, 8735.	12.8	65
28	Non-line-of-sight imaging over 1.43 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	64
29	Computational multi-depth single-photon imaging. <i>Optics Express</i> , 2016, 24, 1873.	3.4	60
30	Long distance measurement-device-independent quantum key distribution with entangled photon sources. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	56
31	Revealing hidden scenes by photon-efficient occlusion-based opportunistic active imaging. <i>Optics Express</i> , 2018, 26, 9945.	3.4	56
32	Efficient generation and characterization of spectrally factorable biphotons. <i>Optics Express</i> , 2017, 25, 7300.	3.4	55
33	Effect of source tampering in the security of quantum cryptography. <i>Physical Review A</i> , 2015, 92, .	2.5	53
34	Exploiting Occlusion in Non-Line-of-Sight Active Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 419-431.	4.4	50
35	Observation of Quantum Fingerprinting Beating the Classical Limit. <i>Physical Review Letters</i> , 2016, 116, 240502.	7.8	48
36	Insecurity of Detector-Device-Independent Quantum Key Distribution. <i>Physical Review Letters</i> , 2016, 117, 250505.	7.8	46

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37	Measurement-Device-Independent Quantum Cryptography. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 148-158.	2.9	45
38	Discrete and continuous variables for measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 772-773.	31.4	44
39	Towards satellite-based quantum-secure time transfer. Nature Physics, 2020, 16, 848-852.	16.7	43
40	Experimental fast quantum random number generation using high-dimensional entanglement with entropy monitoring. Optica, 2016, 3, 1266.	9.3	42
41	Asymmetric Protocols for Scalable High-Rate Measurement-Device-Independent Quantum Key Distribution Networks. Physical Review X, 2019, 9, .	8.9	41
42	W-state Analyzer and Multi-party Measurement-device-independent Quantum Key Distribution. Scientific Reports, 2015, 5, 17449.	3.3	36
43	Measurement-device-independent quantum communication with an untrusted source. Physical Review A, 2015, 92, .	2.5	34
44	Non-Line-of-Sight Imaging with Picosecond Temporal Resolution. Physical Review Letters, 2021, 127, 053602.	7.8	33
45	Experimental quantum network coding. Npj Quantum Information, 2019, 5, .	6.7	31
46	Compressed sensing for active non-line-of-sight imaging. Optics Express, 2021, 29, 1749.	3.4	30
47	Prefixed-threshold real-time selection method in free-space quantum key distribution. Physical Review A, 2018, 97, .	2.5	29
48	Implementation security of quantum key distribution due to polarization-dependent efficiency mismatch. Physical Review A, 2019, 100, .	2.5	28
49	Security Analysis of Quantum Key Distribution with Small Block Length and Its Application to Quantum Space Communications. Physical Review Letters, 2021, 126, 100501.	7.8	28
50	Device-Independent Quantum Key Distribution with Random Postselection. Physical Review Letters, 2022, 128, 110506.	7.8	27
51	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. Optics Express, 2021, 29, 32349.	3.4	25
52	Photon-Efficient 3D Imaging with A Non-local Neural Network. Lecture Notes in Computer Science, 2020, , 225-241.	1.3	23
53	Experimental asymmetric plug-and-play measurement-device-independent quantum key distribution. Physical Review A, 2016, 94, .	2.5	22
54	Finite-key analysis for time-energy high-dimensional quantum key distribution. Physical Review A, 2016, 94, .	2.5	21

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55	Field Demonstration of Distributed Quantum Sensing without Post-Selection. <i>Physical Review X</i> , 2021, 11, .	8.9	18
56	Spaceborne, low-noise, single-photon detection for satellite-based quantum communications. <i>Optics Express</i> , 2019, 27, 36114.	3.4	18
57	Remote Blind State Preparation with Weak Coherent Pulses in the Field. <i>Physical Review Letters</i> , 2019, 123, 100503.	7.8	17
58	Characterizing multi-photon quantum interference with practical light sources and threshold single-photon detectors. <i>New Journal of Physics</i> , 2018, 20, 043018.	2.9	15
59	Experimental study of a quantum random-number generator based on two independent lasers. <i>Physical Review A</i> , 2017, 96, .	2.5	12
60	Measurement-Device-Independent Entanglement Witness of Tripartite Entangled States and Its Applications. <i>Physical Review Letters</i> , 2020, 124, 160503.	7.8	12
61	Security of quantum key distribution with source and detection imperfections. <i>New Journal of Physics</i> , 2021, 23, 023011.	2.9	12
62	Secure quantum communication in the presence of phase- and polarization-dependent loss. <i>Physical Review A</i> , 2018, 98, .	2.5	11
63	Compact long-range single-photon imager with dynamic imaging capability. <i>Optics Letters</i> , 2021, 46, 1181.	3.3	10
64	Chip-Based Quantum Key Distribution against Trojan-Horse Attack. <i>Physical Review Applied</i> , 2021, 15, .	3.8	10
65	Generalized Hong-Ou-Mandel quantum interference with phase-randomized weak coherent states. <i>Physical Review A</i> , 2020, 101, .	2.5	8
66	Measurement-Device-Independent Verification of a Quantum Memory. <i>Physical Review Letters</i> , 2021, 127, 160502.	7.8	8
67	External magnetic effect for the security of practical quantum key distribution. <i>Quantum Science and Technology</i> , 2022, 7, 045008.	5.8	8
68	Experimental Quantum Key Distribution Secure Against Malicious Devices. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
69	Photon-efficient computational imaging with a single-photon camera. , 2016, , .		7
70	Deep Learning Based Single-Photon 3D Imaging with Multiple Returns. , 2020, , .		6
71	Photonic realization of quantum resetting. <i>Optica</i> , 2020, 7, 766.	9.3	5
72	Loss-tolerant quantum secure positioning with weak laser sources. <i>Physical Review A</i> , 2016, 94, .	2.5	4

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73	Open-Destination Measurement-Device-Independent Quantum Key Distribution Network. Entropy, 2020, 22, 1083.	2.2	4
74	Frequency-modulated continuous-wave 3D imaging with high photon efficiency. Optics Letters, 2022, 47, 3568.	3.3	4
75	Higher amounts of loophole-free Bell violation using a heralded entangled source. New Journal of Physics, 2019, 21, 103008.	2.9	3
76	Efficient experimental quantum fingerprinting with channel multiplexing and simultaneous detection. Nature Communications, 2021, 12, 4464.	12.8	3
77	All-Time Single-Photon 3D Imaging Over 21 km. , 2019, , .		3
78	Verification of a resetting protocol for an uncontrolled superconducting qubit. Npj Quantum Information, 2020, 6, .	6.7	2
79	Experimental demonstration of all-photon quantum repeater. , 2019, , .		2
80	A high-speed quantum random number generator prototype. , 2013, , .		1
81	Scalable Measurement-Device-Independent Quantum Key Distribution Networks with Untrusted Relays. , 2020, , .		1
82	Bridging the gap between theory and practice in quantum cryptography. , 2015, , .		0
83	Practical Measurement Device Independent Quantum Key Distribution. , 2013, , .		0
84	High-Dimensional Encoding for Quantum Key Distribution and Random Number Generation. , 2016, , .		0
85	Generation and characterization of factorable biphotons with 99% spectral purity. , 2017, , .		0
86	Measurement-device-independent QKD over asymmetric channels. , 2019, , .		0
87	Single-Photon Imaging Goes Long Range. Optics and Photonics News, 2020, 31, 49.	0.5	0
88	Demonstration of an Exponential Advantage in Communication Complexity via the Quantum Switch. , 2020, , .		0