

# 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	Device-Independent Quantum Key Distribution with Random Postselection. <i>Physical Review Letters</i> , 2022, 128, 110506.	7.8	27
2	Frequency-modulated continuous-wave 3D imaging with high photon efficiency. <i>Optics Letters</i> , 2022, 47, 3568.	3.3	4
3	External magnetic effect for the security of practical quantum key distribution. <i>Quantum Science and Technology</i> , 2022, 7, 045008.	5.8	8
4	Distributed quantum phase estimation with entangled photons. <i>Nature Photonics</i> , 2021, 15, 137-142.	31.4	71
5	An integrated space-to-ground quantum communication network over 4,600 kilometres. <i>Nature</i> , 2021, 589, 214-219.	27.8	415
6	Compressed sensing for active non-line-of-sight imaging. <i>Optics Express</i> , 2021, 29, 1749.	3.4	30
7	Security of quantum key distribution with source and detection imperfections. <i>New Journal of Physics</i> , 2021, 23, 023011.	2.9	12
8	Compact long-range single-photon imager with dynamic imaging capability. <i>Optics Letters</i> , 2021, 46, 1181.	3.3	10
9	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
10	Experimental Quantum Key Distribution Secure Against Malicious Devices. <i>Physical Review Applied</i> , 2021, 15, .	3.8	7
11	Security Analysis of Quantum Key Distribution with Small Block Length and Its Application to Quantum Space Communications. <i>Physical Review Letters</i> , 2021, 126, 100501.	7.8	28
12	Single-photon imaging over 200 km. <i>Optica</i> , 2021, 8, 344.	9.3	148
13	Chip-Based Quantum Key Distribution against Trojan-Horse Attack. <i>Physical Review Applied</i> , 2021, 15, .	3.8	10
14	Field Demonstration of Distributed Quantum Sensing without Post-Selection. <i>Physical Review X</i> , 2021, 11, .	8.9	18
15	Non-Line-of-Sight Imaging with Picosecond Temporal Resolution. <i>Physical Review Letters</i> , 2021, 127, 053602.	7.8	33
16	Efficient experimental quantum fingerprinting with channel multiplexing and simultaneous detection. <i>Nature Communications</i> , 2021, 12, 4464.	12.8	3
17	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. <i>Optics Express</i> , 2021, 29, 32349.	3.4	25
18	Measurement-Device-Independent Verification of a Quantum Memory. <i>Physical Review Letters</i> , 2021, 127, 160502.	7.8	8

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19	Open-Destination Measurement-Device-Independent Quantum Key Distribution Network. Entropy, 2020, 22, 1083.	2.2	4
20	High-Speed Measurement-Device-Independent Quantum Key Distribution with Integrated Silicon Photonics. Physical Review X, 2020, 10, .	8.9	102
21	Verification of a resetting protocol for an uncontrolled superconducting qubit. Npj Quantum Information, 2020, 6, .	6.7	2
22	Towards satellite-based quantum-secure time transfer. Nature Physics, 2020, 16, 848-852.	16.7	43
23	Entanglement-based secure quantum cryptography over 1,120 kilometres. Nature, 2020, 582, 501-505.	27.8	350
24	Generalized Hong-Ou-Mandel quantum interference with phase-randomized weak coherent states. Physical Review A, 2020, 101, .	2.5	8
25	Measurement-Device-Independent Entanglement Witness of Tripartite Entangled States and Its Applications. Physical Review Letters, 2020, 124, 160503.	7.8	12
26	Photon-Efficient 3D Imaging with A Non-local Neural Network. Lecture Notes in Computer Science, 2020, , 225-241.	1.3	23
27	Secure quantum key distribution with realistic devices. Reviews of Modern Physics, 2020, 92, .	45.6	733
28	Super-resolution single-photon imaging at 8.2 kilometers. Optics Express, 2020, 28, 4076.	3.4	78
29	Photonic realization of quantum resetting. Optica, 2020, 7, 766.	9.3	5
30	Single-photon computational 3D imaging at 45km. Photonics Research, 2020, 8, 1532.	7.0	119
31	Single-Photon Imaging Goes Long Range. Optics and Photonics News, 2020, 31, 49.	0.5	0
32	Demonstration of an Exponential Advantage in Communication Complexity via the Quantum Switch. , 2020, , .		0
33	Scalable Measurement-Device-Independent Quantum Key Distribution Networks with Untrusted Relays. , 2020, , .		1
34	Deep Learning Based Single-Photon 3D Imaging with Multiple Returns. , 2020, , .		6
35	An integrated silicon photonic chip platform for continuous-variable quantum key distribution. Nature Photonics, 2019, 13, 839-842.	31.4	196
36	Higher amounts of loophole-free Bell violation using a heralded entangled source. New Journal of Physics, 2019, 21, 103008.	2.9	3

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37	Asymmetric Protocols for Scalable High-Rate Measurement-Device-Independent Quantum Key Distribution Networks. <i>Physical Review X</i> , 2019, 9, .	8.9	41
38	Implementation security of quantum key distribution due to polarization-dependent efficiency mismatch. <i>Physical Review A</i> , 2019, 100, .	2.5	28
39	Remote Blind State Preparation with Weak Coherent Pulses in the Field. <i>Physical Review Letters</i> , 2019, 123, 100503.	7.8	17
40	Experimental quantum repeater without quantum memory. <i>Nature Photonics</i> , 2019, 13, 644-648.	31.4	93
41	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
42	Experimental Quantum Switching for Exponentially Superior Quantum Communication Complexity. <i>Physical Review Letters</i> , 2019, 122, 120504.	7.8	82
43	Experimental quantum network coding. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	31
44	All-Time Single-Photon 3D Imaging Over 21 km. , 2019, , .		3
45	Spaceborne, low-noise, single-photon detection for satellite-based quantum communications. <i>Optics Express</i> , 2019, 27, 36114.	3.4	18
46	Measurement-device-independent QKD over asymmetric channels. , 2019, , .		0
47	Experimental demonstration of all-photon quantum repeater. , 2019, , .		2
48	Prefixed-threshold real-time selection method in free-space quantum key distribution. <i>Physical Review A</i> , 2018, 97, .	2.5	29
49	Secure quantum communication in the presence of phase- and polarization-dependent loss. <i>Physical Review A</i> , 2018, 98, .	2.5	11
50	Large scale quantum key distribution: challenges and solutions [Invited]. <i>Optics Express</i> , 2018, 26, 24260.	3.4	148
51	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
52	Revealing hidden scenes by photon-efficient occlusion-based opportunistic active imaging. <i>Optics Express</i> , 2018, 26, 9945.	3.4	56
53	Exploiting Occlusion in Non-Line-of-Sight Active Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 419-431.	4.4	50
54	Experimental study of a quantum random-number generator based on two independent lasers. <i>Physical Review A</i> , 2017, 96, .	2.5	12

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55	Efficient generation and characterization of spectrally factorable biphotons. Optics Express, 2017, 25, 7300.	3.4	55
56	Quantum-memory-assisted multi-photon generation for efficient quantum information processing. Optica, 2017, 4, 1034.	9.3	71
57	Generation and characterization of factorable biphotons with 99% spectral purity. , 2017, , .		0
58	Experimental fast quantum random number generation using high-dimensional entanglement with entropy monitoring. Optica, 2016, 3, 1266.	9.3	42
59	Loss-tolerant quantum secure positioning with weak laser sources. Physical Review A, 2016, 94, .	2.5	4
60	Finite-key analysis for time-energy high-dimensional quantum key distribution. Physical Review A, 2016, 94, .	2.5	21
61	Photon-efficient imaging with a single-photon camera. Nature Communications, 2016, 7, 12046.	12.8	169
62	Insecurity of Detector-Device-Independent Quantum Key Distribution. Physical Review Letters, 2016, 117, 250505.	7.8	46
63	Experimental asymmetric plug-and-play measurement-device-independent quantum key distribution. Physical Review A, 2016, 94, .	2.5	22
64	Computational multi-depth single-photon imaging. Optics Express, 2016, 24, 1873.	3.4	60
65	Observation of Quantum Fingerprinting Beating the Classical Limit. Physical Review Letters, 2016, 116, 240502.	7.8	48
66	Silicon photonic transmitter for polarization-encoded quantum key distribution. Optica, 2016, 3, 1274.	9.3	110
67	Photon-efficient computational imaging with a single-photon camera. , 2016, , .		7
68	High-Dimensional Encoding for Quantum Key Distribution and Random Number Generation. , 2016, , .		0
69	Effect of source tampering in the security of quantum cryptography. Physical Review A, 2015, 92, .	2.5	53
70	Experimental quantum key distribution with source flaws. Physical Review A, 2015, 92, .	2.5	69
71	Measurement-device-independent quantum communication with an untrusted source. Physical Review A, 2015, 92, .	2.5	34
72	W-state Analyzer and Multi-party Measurement-device-independent Quantum Key Distribution. Scientific Reports, 2015, 5, 17449.	3.3	36

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73	Experimental quantum fingerprinting with weak coherent pulses. Nature Communications, 2015, 6, 8735.	12.8	65
74	Bridging the gap between theory and practice in quantum cryptography. , 2015, , .		0
75	Discrete and continuous variables for measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 772-773.	31.4	44
76	Measurement-Device-Independent Quantum Cryptography. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 148-158.	2.9	45
77	Experimental Demonstration of Polarization Encoding Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2014, 112, 190503.	7.8	272
78	Finite-key analysis for measurement-device-independent quantum key distribution. Nature Communications, 2014, 5, 3732.	12.8	303
79	Concise security bounds for practical decoy-state quantum key distribution. Physical Review A, 2014, 89, .	2.5	248
80	Protocol choice and parameter optimization in decoy-state measurement-device-independent quantum key distribution. Physical Review A, 2014, 89, .	2.5	159
81	Continuous-variable measurement-device-independent quantum key distribution. Physical Review A, 2014, 89, .	2.5	164
82	Long distance measurement-device-independent quantum key distribution with entangled photon sources. Applied Physics Letters, 2013, 103, .	3.3	56
83	Postprocessing for quantum random-number generators: Entropy evaluation and randomness extraction. Physical Review A, 2013, 87, .	2.5	153
84	Practical aspects of measurement-device-independent quantum key distribution. New Journal of Physics, 2013, 15, 113007.	2.9	128
85	Practical Measurement Device Independent Quantum Key Distribution. , 2013, , .		0
86	A high-speed quantum random number generator prototype. , 2013, , .		1
87	Ultrafast quantum random number generation based on quantum phase fluctuations. Optics Express, 2012, 20, 12366.	3.4	158
88	Experimental demonstration of phase-remapping attack in a practical quantum key distribution system. New Journal of Physics, 2010, 12, 113026.	2.9	247