Zheshen Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Entanglement-Enhanced Sensing in a Lossy and Noisy Environment. Physical Review Letters, 2015, 114, 110506.	2.9	193
2	Development of Quantum Interconnects (QuICs) for Next-Generation Information Technologies. PRX Quantum, 2021, 2, .	3.5	172
3	Photon-efficient quantum key distribution using time–energy entanglement with high-dimensional encoding. New Journal of Physics, 2015, 17, 022002.	1.2	150
4	Optimum Mixed-State Discrimination for Noisy Entanglement-Enhanced Sensing. Physical Review Letters, 2017, 118, 040801.	2.9	139
5	High-dimensional quantum key distribution using dispersive optics. Physical Review A, 2013, 87, .	1.0	136
6	Distributed quantum sensing using continuous-variable multipartite entanglement. Physical Review A, 2018, 97, .	1.0	130
7	Entanglement's Benefit Survives an Entanglement-Breaking Channel. Physical Review Letters, 2013, 111, 010501.	2.9	114
8	Demonstration of a Reconfigurable Entangled Radio-Frequency Photonic Sensor Network. Physical Review Letters, 2020, 124, 150502.	2.9	88
9	Unconditional Security of Time-Energy Entanglement Quantum Key Distribution Using Dual-Basis Interferometry. Physical Review Letters, 2014, 112, 120506.	2.9	78
10	Quantum identity authentication based on ping-pong technique for photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 199-205.	0.9	71
11	Distributed quantum sensing. Quantum Science and Technology, 2021, 6, 043001.	2.6	70
12	A 24 km fiber-based discretely signaled continuous variable quantum key distribution system. Optics Express, 2009, 17, 24244.	1.7	69
13	Efficient generation and characterization of spectrally factorable biphotons. Optics Express, 2017, 25, 7300.	1.7	55
14	Practical Route to Entanglement-Assisted Communication Over Noisy Bosonic Channels. Physical Review Applied, 2020, 13, .	1.5	54
15	Entanglement-based quantum communication secured by nonlocal dispersion cancellation. Physical Review A, 2014, 90, .	1.0	53
16	Entanglement-enhanced Neyman–Pearson target detection using quantum illumination. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1567.	0.9	48
17	Entanglement-enhanced lidars for simultaneous range and velocity measurements. Physical Review A, 2017, 96, .	1.0	45
18	Floodlight quantum key distribution: A practical route to gigabit-per-second secret-key rates. Physical Review A, 2016, 94, .	1.0	44

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19	Quantum illumination for enhanced detection of Rayleigh-fading targets. Physical Review A, 2017, 96, .	1.0	36
20	Entanglement-Assisted Absorption Spectroscopy. Physical Review Letters, 2020, 125, 180502.	2.9	36
21	Full-band quantum-dynamical theory of saturation and four-wave mixing in graphene. Optics Letters, 2011, 36, 4569.	1.7	35
22	Secure communication via quantum illumination. Quantum Information Processing, 2014, 13, 2171-2193.	1.0	31
23	Practical high-dimensional quantum key distribution with decoy states. Physical Review A, 2015, 91, .	1.0	31
24	Quantum computing with multidimensional continuous-variable cluster states in a scalable photonic platform. Physical Review Research, 2020, 2, .	1.3	30
25	Physical-Layer Supervised Learning Assisted by an Entangled Sensor Network. Physical Review X, 2019, 9,	2.8	29
26	Experimental quantum key distribution at 1.3 gigabit-per-second secret-key rate over a 10 dB loss channel. Quantum Science and Technology, 2018, 3, 025007.	2.6	25
27	Entanglement-Assisted Communication Surpassing the Ultimate Classical Capacity. Physical Review Letters, 2021, 126, 250501.	2.9	25
28	Quantum key distribution using basis encoding of Gaussian-modulated coherent states. Physical Review A, 2018, 97, .	1.0	23
29	Quantum-Enhanced Data Classification with a Variational Entangled Sensor Network. Physical Review X, 2021, 11, .	2.8	23
30	Repeater-enhanced distributed quantum sensing based on continuous-variable multipartite entanglement. Physical Review A, 2019, 99, .	1.0	21
31	Floodlight quantum key distribution: Demonstrating a framework for high-rate secure communication. Physical Review A, 2017, 95, .	1.0	19
32	Wave-Function Engineering for Spectrally Uncorrelated Biphotons in the Telecommunication Band Based on a Machine-Learning Framework. Physical Review Applied, 2019, 12, .	1.5	18
33	Large-alphabet encoding for higher-rate quantum key distribution. Optics Express, 2019, 27, 17539.	1.7	17
34	Finite-key analysis of high-dimensional time–energy entanglement-based quantum key distribution. Quantum Information Processing, 2015, 14, 1005-1015.	1.0	13
35	Security-proof framework for two-way Gaussian quantum-key-distribution protocols. Physical Review A, 2018, 98, .	1.0	13
36	Security of a discretely signaled continuous variable quantum key distribution protocol for high rate systems. Optics Express, 2009, 17, 12090.	1.7	12

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37	Covert sensing using floodlight illumination. Physical Review A, 2019, 99, .	1.0	12
38	Entanglement-assisted capacity regions and protocol designs for quantum multiple-access channels. Npj Quantum Information, 2021, 7, .	2.8	11
39	Demonstration of Entanglement-Enhanced Covert Sensing. Physical Review Letters, 2022, 129, .	2.9	11
40	Continuous-variable quantum repeaters based on bosonic error-correction and teleportation: architecture and applications. Quantum Science and Technology, 2022, 7, 025018.	2.6	8
41	High-order encoding schemes for floodlight quantum key distribution. Physical Review A, 2018, 98, .	1.0	7
42	High-rate large-alphabet quantum key distribution over deployed telecom fiber. , 2016, , .		5
43	High Dimensional Quantum Key Distribution with Biphoton Frequency Combs through Energy-Time Entanglement. , 2019, , .		3
44	Floodlight Quantum Key Distribution. , 2016, , .		2
45	Entanglement Distribution and Routing in a Multi-node Quantum Network Testbed. , 2021, , .		2
46	Experimental Quantum Key Distribution at 1.3 Gbit/s Secret-Key Rate over a 10-dB-Loss Channel. , 2018, , .		2
47	The quantum noise of guided wave acoustic Brillouin scattering with applications to continuous-variable quantum key distribution. Journal of Modern Optics, 2011, 58, 988-993.	0.6	1
48	Entanglement-Assisted Communication Surpassing the Ultimate Classical Capacity. , 2021, , .		1
49	Quantum-enhanced data classification with a variational entangled sensor network. , 2021, , .		1
50	Experimental Demonstration of Quantum Sensing in the Presence of Quantum Decoherence. , 2015, , .		1
51	Large-Alphabet Encoding Schemes for Floodlight Quantum Key Distribution. , 2017, , .		1
52	Frequency-Multiplexed Rate-Adaptive Quantum Key Distribution with High-Dimensional Encoding. , 2020, , .		1
53	Photon-Efficient High-Dimensional Quantum Key Distribution. , 2014, , .		1
54	Practical High-Dimensional Quantum Key Distribution with Decoy States. , 2015, , .		1

Practical High-Dimensional Quantum Key Distribution with Decoy States. , 2015, , . 54

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55	Optimum Mixed-State Discrimination for Noisy Entanglement-Enhanced Sensing. , 2017, , .		1
56	Entanglement-Enhanced Physical-Layer Classifier Using Supervised Machine Learning. , 2019, , .		1
57	Experimental Demonstration of an Entangled Radiofrequency-Photonic Sensor Network. , 2020, , .		1
58	Use of discrete modulation and a continuous wave local oscillator in a 24 km continuous variable quantum key distribution system. , 2010, , .		0
59	High-dimensional time-energy entanglement-based quantum key distribution using dispersive optics. , 2014, , .		Ο
60	Entanglement-Assisted Absorption Spectroscopy. , 2021, , .		0
61	Entanglement-assisted multiple-access channels: capacity regions and protocol designs. , 2021, , .		0
62	Adaptive-Optics Enhanced Distribution of Entangled Photons over Turbulent Free-Space Optical Channels. , 2021, , .		0
63	Security of a Discretely Signaled Continuous Variable QKD Protocol against Collective Attacks. , 2008, , .		Ο
64	A provably secure streamcipher based on a high speed quantum random number generator. , 2010, , .		0
65	A quantum theory of four-wave mixing in graphene. , 2011, , .		Ο
66	Experimental Demonstration of Secure Communication based on Quantum Illumination. , 2013, , .		0
67	Quantum Communication Using Time-energy Entangled Photons. , 2014, , .		Ο
68	Demonstration of Loss-Tolerant Quantum Key Distribution. , 2016, , .		0
69	Floodlight Quantum Key Distribution. , 2016, , .		Ο
70	Generation and characterization of factorable biphotons with 99% spectral purity. , 2017, , .		0
71	Distributed Quantum Sensing Using Continuous-Variable Multipartite Entanglement. , 2018, , .		0
72	Entanglement-Based Distributed Quantum Sensing Enhanced by Quantum Relays. , 2019, , .		0

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73	Indistinguishable Photon Source in the 1550-nm Band Optimized by Machine Learning. , 2019, , .		0
74	Practical route to entanglement-enhanced communication over noisy bosonic channels. , 2020, , .		0
75	Practical route to entanglement-enhanced communication over noisy bosonic channels. , 2020, , .		Ο
76	Entanglement-Enhanced Physical-Layer Classifier Using Supervised Machine Learning. , 2020, , .		0
77	Experimental Demonstration of a Reconfigurable Entangled Radiofrequency-Photonic Sensor Network. , 2020, , .		0
78	Entangled Sensor Networks Empowered by Machine Learning. , 2021, , .		0
79	Entanglement-assisted multiple-access channels: capacity regions and protocol designs. , 2021, , .		0
80	Entanglement-Assisted Communication Surpassing the Ultimate Classical Capacity. , 2021, , .		0