Bing Qi

List of Publications by Year in descending order

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108 papers	8,058 citations	94381 37 h-index	64755 79 g-index
111 all docs	111 docs citations	111 times ranked	3522 citing authors

#	Article	IF	Citations
1	Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2012, 108, 130503.	2.9	1,510
2	Practical decoy state for quantum key distribution. Physical Review A, 2005, 72, .	1.0	785
3	Practical challenges in quantum key distribution. Npj Quantum Information, 2016, 2, .	2.8	489
4	Quantum hacking: Experimental demonstration of time-shift attack against practical quantum-key-distribution systems. Physical Review A, 2008, 78, .	1.0	428
5	Experimental Quantum Key Distribution with Decoy States. Physical Review Letters, 2006, 96, 070502.	2.9	292
6	Experimental Demonstration of Polarization Encoding Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2014, 112, 190503.	2.9	272
7	Experimental demonstration of phase-remapping attack in a practical quantum key distribution system. New Journal of Physics, 2010, 12, 113026.	1.2	247
8	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance. Optics Express, 2003, 11, 794.	1.7	243
9	Quantum random number generation. Npj Quantum Information, 2016, 2, .	2.8	233
10	High-speed quantum random number generation by measuring phase noise of a single-mode laser. Optics Letters, 2010, 35, 312.	1.7	206
11	Experimental study on the Gaussian-modulated coherent-state quantum key distribution over standard telecommunication fibers. Physical Review A, 2007, 76, .	1.0	192
12	Phase-remapping attack in practical quantum-key-distribution systems. Physical Review A, 2007, 75, .	1.0	178
13	Ultrafast quantum random number generation based on quantum phase fluctuations. Optics Express, 2012, 20, 12366.	1.7	158
14	Postprocessing for quantum random-number generators: Entropy evaluation and randomness extraction. Physical Review A, 2013, 87, .	1.0	153
15	Generating the Local Oscillator â€œLocallyâ€•in Continuous-Variable Quantum Key Distribution Based on Coherent Detection. Physical Review X, 2015, 5, .	2.8	147
16	Dynamic focus control in high-speed optical coherence tomography based on a microelectromechanical mirror. Optics Communications, 2004, 232, 123-128.	1.0	145
17	Novel data processing techniques for dispersive white light interferometer. Optical Engineering, 2003, 42, 3165.	0.5	143
18	Feasibility of quantum key distribution through a dense wavelength division multiplexing network. New Journal of Physics, 2010, 12, 103042.	1.2	135

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19	Phase encoding schemes for measurement-device-independent quantum key distribution with basis-dependent flaw. Physical Review A, 2012, 85, .	1.0	132
20	Endoscopic Doppler optical coherence tomography in the human GI tract: initial experience. Gastrointestinal Endoscopy, 2005, 61, 879-890.	0.5	130
21	Practical aspects of measurement-device-independent quantum key distribution. New Journal of Physics, 2013, 15, 113007.	1.2	128
22	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part II): Imaging in vivo cardiac dynamics of Xenopus laevis. Optics Express, 2003, 11, 1650.	1.7	109
23	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part III): in vivo endoscopic imaging of blood flow in the rat and human gastrointestinal tracts. Optics Express, 2003, 11, 2416.	1.7	97
24	Quantum key distribution with an unknown and untrusted source. Physical Review A, 2008, 77, .	1.0	97
25	A balanced homodyne detector for high-rate Gaussian-modulated coherent-state quantum key distribution. New Journal of Physics, 2011, 13, 013003.	1.2	95
26	Micromachined 2-D scanner for 3-D optical coherence tomography. Sensors and Actuators A: Physical, 2005, 117, 331-340.	2.0	77
27	Passive decoy-state quantum key distribution with practical light sources. Physical Review A, 2010, 81, .	1.0	67
28	Long distance measurement-device-independent quantum key distribution with entangled photon sources. Applied Physics Letters, 2013, 103, .	1.5	56
29	Quantum secret sharing using weak coherent states. Physical Review A, 2019, 100, .	1.0	52
30	Experimental quantum key distribution with active phase randomization. Applied Physics Letters, 2007, 90, 044106.	1.5	50
31	Quantum secret sharing with polarization-entangled photon pairs. Physical Review A, 2019, 99, .	1.0	48
32	Measurement-Device-Independent Quantum Cryptography. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 148-158.	1.9	45
33	Discrete and continuous variables for measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 772-773.	15.6	44
34	Noise Analysis of Simultaneous Quantum Key Distribution and Classical Communication Scheme Using a True Local Oscillator. Physical Review Applied, 2018, 9, .	1.5	44
35	Single-crystal sapphire-based optical high-temperature sensor for harsh environments. Optical Engineering, 2004, 43, 157.	0.5	41
36	Single-photon continuous-variable quantum key distribution based on the energy-time uncertainty relation. Optics Letters, 2006, 31, 2795.	1.7	41

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37	High-resolution, large dynamic range fiber length measurement based on a frequency-shifted asymmetric Sagnac interferometer. Optics Letters, 2005, 30, 3287.	1.7	38
38	Security analysis of an untrusted source for quantum key distribution: passive approach. New Journal of Physics, 2010, 12, 023024.	1.2	36
39	Continuous-wave fiber cavity ring-down measurements using frequency-shifted interferometry. Optics Letters, 2011, 36, 2080.	1.7	35
40	Multipoint Chemical Gas Sensing Using Frequency-Shifted Interferometry. Journal of Lightwave Technology, 2009, 27, 5356-5364.	2.7	33
41	Simultaneous classical communication and quantum key distribution using continuous variables. Physical Review A, 2016, 94, .	1.0	33
42	Quantum key distribution with dual detectors. Physical Review A, 2007, 75, .	1.0	32
43	‹title›Fiber optic pressure and temperature sensors for oil down hole application‹/title›. , 2002, 4578, 182.		31
44	Passive state preparation in the Gaussian-modulated coherent-states quantum key distribution. Physical Review A, 2018, 97, .	1.0	31
45	Using Frequency-Shifted Interferometry for Multiplexing a Fiber Bragg Grating Array. IEEE Photonics Technology Letters, 2008, 20, 1488-1490.	1.3	25
46	Experimental Passive-State Preparation for Continuous-Variable Quantum Communications. Physical Review Applied, 2020, 13, .	1.5	24
47	Experimental Study of Hongâ€“Ouâ€“Mandel Interference Using Independent Phase Randomized Weak Coherent States. Journal of Lightwave Technology, 2018, 36, 3752-3759.	2.7	23
48	Simulation and Implementation of Decoy State Quantum Key Distribution over 60km Telecom Fiber. , 2006, , .		22
49	Continuous-wave cavity ring-down evanescent-field sensing with a broadband source based on frequency-shifted interferometry. Sensors and Actuators B: Chemical, 2013, 184, 150-155.	4.0	22
50	Frequency-shifted Mach-Zehnder interferometer for locating multiple weak reflections along a fiber link. IEEE Photonics Technology Letters, 2006, 18, 295-297.	1.3	19
51	Polarization insensitive phase modulator for quantum cryptosystems. Optics Express, 2006, 14, 4264.	1.7	19
52	True randomness from an incoherent source. Review of Scientific Instruments, 2017, 88, 113101.	0.6	19
53	Two-Party secret key distribution via a modified quantum secret sharing protocol. Optics Express, 2015, 23, 7300.	1.7	18
54	Scalable high-rate, high-dimensional time-bin encoding quantum key distribution. Quantum Science and Technology, 2019, 4, 035008.	2.6	18

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55	Self-compensating fiber optic flow sensor system and its field applications. Applied Optics, 2004, 43, 1752.	2.1	16
56	Characterizing photon number statistics using conjugate optical homodyne detection. Optics Express, 2020, 28, 2276.	1.7	16
57	In Vivo Doppler Optical Coherence Tomography of Mucocutaneous Telangiectases in Hereditary Hemorrhagic Telangiectasia. Gastrointestinal Endoscopy, 2003, 58, 591-598.	0.5	15
58	Optical time-domain reflectometry interrogation of multiplexing low-reflectance Bragg-grating-based sensor system. Optical Engineering, 2003, 42, 1597.	0.5	15
59	Trustworthiness of detectors in quantum key distribution with untrusted detectors. Physical Review A, 2015, 91, .	1.0	15
60	All-Optical Frequency Processor for Networking Applications. Journal of Lightwave Technology, 2020, 38, 1678-1687.	2.7	15
61	Investigations of afterpulsing and detection efficiency recovery in superconducting nanowire single-photon detectors. Journal of Applied Physics, 2013, 113, 213102.	1.1	14
62	Reflectometry based on a frequency-shifted interferometer using sideband interference. Optics Letters, 2013, 38, 1083.	1.7	13
63	Frequency-Shifted Interferometry â€" A Versatile Fiber-Optic Sensing Technique. Sensors, 2014, 14, 10977-11000.	2.1	13
64	Loss-tolerant position-based quantum cryptography. Physical Review A, 2015, 91, .	1.0	13
65	Faraday Michelson Interferometers for Signal Demodulation of Fiber-Optic Sensors. Journal of Lightwave Technology, 2021, 39, 2552-2558.	2.7	12
66	Quadrature phase-shifted optical demodulator for low-coherence fiber-optic Fabry-Perot interferometric sensors. Optics Express, 2019, 27, 7319.	1.7	11
67	Bennett-Brassard 1984 quantum key distribution using conjugate homodyne detection. Physical Review A, 2021, 103, .	1.0	11
68	Single-crystal Sapphire Based Optical Polarimetric Sensor for High Temperature Measurement. Sensors, 2006, 6, 823-834.	2.1	10
69	Cryogenic fluid level sensors multiplexed by frequency-shifted interferometry. Applied Optics, 2010, 49, 4898.	2.1	8
70	Experimental decoy-state Bennett-Brassard 1984 quantum key distribution through a turbulent channel. Physical Review A, 2021, 103, .	1.0	8
71	Double-Tubing Encapsulated Fiber Optic Temperature Sensor. AIP Conference Proceedings, 2003, , .	0.3	6
72	Upgraded Fiber-Optic Sensor System for Dynamic Strain Measurement in Spallation Neutron Source. IEEE Sensors Journal, 2021, 21, 26772-26784.	2.4	6

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73	High-sensitivity detection and monitoring of microcirculation using cutaneous and catheter probes for Doppler optical coherence tomography. , 2003, , .		5
74	Multipoint sensing with a low-coherence source using single-arm frequency-shifted interferometry. Applied Optics, 2016, 55, 5526.	2.1	5
75	Quantum Key Distribution with an Untrusted Source. , 2009, , .		5
76	Loss-tolerant quantum secure positioning with weak laser sources. Physical Review A, 2016, 94, .	1.0	4
77	Agile frequency transformations for dense wavelength-multiplexed communications. Optics Express, 2020, 28, 20379.	1.7	4
78	Quantum key distribution based on a Sagnac loop interferometer and polarization-insensitive phase modulators. , 2006, , .		3
79	Free-space reconfigurable quantum key distribution network. , 2015, , .		3
80	Security of high speed quantum key distribution with finite detector dead time. Quantum Information and Computation, 2014, 14, 217-235.	0.1	3
81	Single-crystal sapphire high temperature sensing based on broadband polarimetric interferometer. , 0, , .		2
82	<title>Diffusion of water in optical fibers at elevated temperature and pressure</title>. , 2002, 4578, 239.		2
83	In vivo feasibility of endoscopic catheter-based Doppler optical coherence tomography. Gastroenterology, 2003, 124, A49-A50.	0.6	2
84	Optimal filters for photon cloning with an optical amplifier. Optics Letters, 2007, 32, 418.	1.7	2
85	Single-Crystal Sapphire High-Temperature Measurement Instrument for Coal Gasification. AIP Conference Proceedings, 2003, , .	0.3	1
86	Measuring chromatic dispersion using single-arm interferometers: from millimeters to kilometers. Proceedings of SPIE, 2008, , .	0.8	1
87	Multipoint Chemical Gas Sensing System Based on Frequency-Shifted Interferometry. , 2008, , .		1
88	A high-speed quantum random number generator prototype. , 2013, , .		1
89	<title>Practical studies on bridge compensating technique in fiber optic sensors</title>. , 1998, , .		0
90	<title>Single-crystal sapphire high-temperature sensor</title>. , 2002, 4578, 191.		0

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91	BPDI-based optical sensor for real-time high-temperature measurements for coal gasification process. , 2002, 4920, 9.		0
92	In vivo color Doppler optical coherence tomography of mucocutaneous telangiectases in hereditary hemorrhagic telangiectasia. Gastroenterology, 2003, 124, A17.	0.6	0
93	Sagnac Quantum Key Distribution Using Novel Polarization-Insensitive Phase Modulators Based On Frequency Shift. , 0, , .		0
94	Interrogation of multiplexed fiber grating sensors using frequency-shifted interferometer. , 2006, , .		0
95	Frequency-shifted interferometer and its applications. , 2006, , .		0
96	Quantum hacking: attacking practical quantum key distribution systems. Proceedings of SPIE, 2007, , .	0.8	0
97	Improve the efficiency of a practical quantum key distribution system. , 2007, , .		0
98	Passive Decoy State Quantum Key Distribution with Coherent Light. , 2010, , .		0
99	Bridging the gap between theory and practice in quantum cryptography. , 2015, , .		0
100	Secret key generation via a modified quantum secret sharing protocol. Proceedings of SPIE, 2015, , .	0.8	0
101	All-Optical Processing with Dynamic Frequency Transformations. , 2019, , .		0
102	Location-Resolved Gas Concentration Detection Using Frequency-Shifted Interferometry. , 2009, , .		0
103	Entanglement based frequency-time coding quantum key distribution. , 2011, , .		0
104	Truly Continuous-Wave Spatial-Domain Cavity Ring-Down Technique Based on Frequency-Shifted Interferometry. , 2011, , .		0
105	Broadband multipoint sensing with single-arm frequency-shifted interferometry. , 2013, , .		0
106	Practical Measurement Device Independent Quantum Key Distribution. , 2013, , .		0
107	All-optical frequency hopping and broadcasting in wavelength-multiplexed channels. , 2020, , .		0
108	Passive-state preparation for continuous-variable quantum key distribution. , 2020, , .		0