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	Bennett-Brassard 1984 quantum key distribution using conjugate homodyne detection. Physical Review A, 2021, 103, .	1.0	11
2	Experimental decoy-state Bennett-Brassard 1984 quantum key distribution through a turbulent channel. Physical Review A, 2021, 103, .	1.0	8
3	Faraday Michelson Interferometers for Signal Demodulation of Fiber-Optic Sensors. Journal of Lightwave Technology, 2021, 39, 2552-2558.	2.7	12
4	Upgraded Fiber-Optic Sensor System for Dynamic Strain Measurement in Spallation Neutron Source. IEEE Sensors Journal, 2021, 21, 26772-26784.	2.4	6
5	Experimental Passive-State Preparation for Continuous-Variable Quantum Communications. Physical Review Applied, 2020, 13, .	1.5	24
6	All-Optical Frequency Processor for Networking Applications. Journal of Lightwave Technology, 2020, 38, 1678-1687.	2.7	15
7	Characterizing photon number statistics using conjugate optical homodyne detection. Optics Express, 2020, 28, 2276.	1.7	16
8	Agile frequency transformations for dense wavelength-multiplexed communications. Optics Express, 2020, 28, 20379.	1.7	4
9	All-optical frequency hopping and broadcasting in wavelength-multiplexed channels. , 2020, , .		0
10	Passive-state preparation for continuous-variable quantum key distribution. , 2020, , .		0
11	Quantum secret sharing using weak coherent states. Physical Review A, 2019, 100, .	1.0	52
12	Quadrature phase-shifted optical demodulator for low-coherence fiber-optic Fabry-Perot interferometric sensors. Optics Express, 2019, 27, 7319.	1.7	11
13	Quantum secret sharing with polarization-entangled photon pairs. Physical Review A, 2019, 99, .	1.0	48
14	Scalable high-rate, high-dimensional time-bin encoding quantum key distribution. Quantum Science and Technology, 2019, 4, 035008.	2.6	18
15	All-Optical Processing with Dynamic Frequency Transformations. , 2019, , .		0
16	Passive state preparation in the Gaussian-modulated coherent-states quantum key distribution. Physical Review A, 2018, 97, .	1.0	31
17	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
18	Noise Analysis of Simultaneous Quantum Key Distribution and Classical Communication Scheme Using a True Local Oscillator. Physical Review Applied, 2018, 9, .	1.5	44

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19	True randomness from an incoherent source. Review of Scientific Instruments, 2017, 88, 113101.	0.6	19
20	Loss-tolerant quantum secure positioning with weak laser sources. Physical Review A, 2016, 94, .	1.0	4
21	Quantum random number generation. Npj Quantum Information, 2016, 2, .	2.8	233
22	Multipoint sensing with a low-coherence source using single-arm frequency-shifted interferometry. Applied Optics, 2016, 55, 5526.	2.1	5
23	Practical challenges in quantum key distribution. Npj Quantum Information, 2016, 2, .	2.8	489
24	Simultaneous classical communication and quantum key distribution using continuous variables. Physical Review A, 2016, 94, .	1.0	33
25	Free-space reconfigurable quantum key distribution network. , 2015, , .		3
26	Generating the Local Oscillator â€œLocallyâ€•in Continuous-Variable Quantum Key Distribution Based on Coherent Detection. Physical Review X, 2015, 5, .	2.8	147
27	Trustworthiness of detectors in quantum key distribution with untrusted detectors. Physical Review A, 2015, 91, .	1.0	15
28	Loss-tolerant position-based quantum cryptography. Physical Review A, 2015, 91, .	1.0	13
29	Two-Party secret key distribution via a modified quantum secret sharing protocol. Optics Express, 2015, 23, 7300.	1.7	18
30	Bridging the gap between theory and practice in quantum cryptography. , 2015, , .		0
31	Secret key generation via a modified quantum secret sharing protocol. Proceedings of SPIE, 2015, , .	0.8	0
32	Discrete and continuous variables for measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 772-773.	15.6	44
33	Measurement-Device-Independent Quantum Cryptography. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 148-158.	1.9	45
34	Frequency-Shifted Interferometry â€" A Versatile Fiber-Optic Sensing Technique. Sensors, 2014, 14, 10977-11000.	2.1	13
35	Experimental Demonstration of Polarization Encoding Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2014, 112, 190503.	2.9	272
36	Security of high speed quantum key distribution with finite detector dead time. Quantum Information and Computation, 2014, 14, 217-235.	0.1	3

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37	Long distance measurement-device-independent quantum key distribution with entangled photon sources. Applied Physics Letters, 2013, 103, .	1.5	56
38	Investigations of afterpulsing and detection efficiency recovery in superconducting nanowire single-photon detectors. Journal of Applied Physics, 2013, 113, 213102.	1.1	14
39	Postprocessing for quantum random-number generators: Entropy evaluation and randomness extraction. Physical Review A, 2013, 87, .	1.0	153
40	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
41	Reflectometry based on a frequency-shifted interferometer using sideband interference. Optics Letters, 2013, 38, 1083.	1.7	13
42	Practical aspects of measurement-device-independent quantum key distribution. New Journal of Physics, 2013, 15, 113007.	1.2	128
43	Broadband multipoint sensing with single-arm frequency-shifted interferometry. , 2013, , .		0
44	Practical Measurement Device Independent Quantum Key Distribution. , 2013, , .		0
45	A high-speed quantum random number generator prototype. , 2013, , .		1
46	Ultrafast quantum random number generation based on quantum phase fluctuations. Optics Express, 2012, 20, 12366.	1.7	158
47	Phase encoding schemes for measurement-device-independent quantum key distribution with basis-dependent flaw. Physical Review A, 2012, 85, .	1.0	132
48	Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2012, 108, 130503.	2.9	1,510
49	Continuous-wave fiber cavity ring-down measurements using frequency-shifted interferometry. Optics Letters, 2011, 36, 2080.	1.7	35
50	A balanced homodyne detector for high-rate Gaussian-modulated coherent-state quantum key distribution. New Journal of Physics, 2011, 13, 013003.	1.2	95
51	Entanglement based frequency-time coding quantum key distribution. , 2011, , .		0
52	Truly Continuous-Wave Spatial-Domain Cavity Ring-Down Technique Based on Frequency-Shifted Interferometry. , 2011, , .		0
53	Passive Decoy State Quantum Key Distribution with Coherent Light. , 2010, , .		0
54	Experimental demonstration of phase-remapping attack in a practical quantum key distribution system. New Journal of Physics, 2010, 12, 113026.	1.2	247

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55	Passive decoy-state quantum key distribution with practical light sources. Physical Review A, 2010, 81, .	1.0	67
56	Security analysis of an untrusted source for quantum key distribution: passive approach. New Journal of Physics, 2010, 12, 023024.	1.2	36
57	Feasibility of quantum key distribution through a dense wavelength division multiplexing network. New Journal of Physics, 2010, 12, 103042.	1.2	135
58	Cryogenic fluid level sensors multiplexed by frequency-shifted interferometry. Applied Optics, 2010, 49, 4898.	2.1	8
59	High-speed quantum random number generation by measuring phase noise of a single-mode laser. Optics Letters, 2010, 35, 312.	1.7	206
60	Multipoint Chemical Gas Sensing Using Frequency-Shifted Interferometry. Journal of Lightwave Technology, 2009, 27, 5356-5364.	2.7	33
61	Location-Resolved Gas Concentration Detection Using Frequency-Shifted Interferometry. , 2009, , .		0
62	Quantum Key Distribution with an Untrusted Source. , 2009, , .		5
63	Measuring chromatic dispersion using single-arm interferometers: from millimeters to kilometers. Proceedings of SPIE, 2008, , .	0.8	1
64	Using Frequency-Shifted Interferometry for Multiplexing a Fiber Bragg Grating Array. IEEE Photonics Technology Letters, 2008, 20, 1488-1490.	1.3	25
65	Multipoint Chemical Gas Sensing System Based on Frequency-Shifted Interferometry. , 2008, , .		1
66	Quantum hacking: Experimental demonstration of time-shift attack against practical quantum-key-distribution systems. Physical Review A, 2008, 78, .	1.0	428
67	Quantum key distribution with an unknown and untrusted source. Physical Review A, 2008, 77, .	1.0	97
68	Experimental study on the Gaussian-modulated coherent-state quantum key distribution over standard telecommunication fibers. Physical Review A, 2007, 76, .	1.0	192
69	Phase-remapping attack in practical quantum-key-distribution systems. Physical Review A, 2007, 75, .	1.0	178
70	Experimental quantum key distribution with active phase randomization. Applied Physics Letters, 2007, 90, 044106.	1.5	50
71	Quantum key distribution with dual detectors. Physical Review A, 2007, 75, .	1.0	32
72	Quantum hacking: attacking practical quantum key distribution systems. Proceedings of SPIE, 2007, , .	0.8	0

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73	Improve the efficiency of a practical quantum key distribution system. , 2007, , .		0
74	Optimal filters for photon cloning with an optical amplifier. Optics Letters, 2007, 32, 418.	1.7	2
75	Simulation and Implementation of Decoy State Quantum Key Distribution over 60km Telecom Fiber. , 2006, , .		22
76	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
77	Experimental Quantum Key Distribution with Decoy States. Physical Review Letters, 2006, 96, 070502.	2.9	292
78	Single-photon continuous-variable quantum key distribution based on the energy-time uncertainty relation. Optics Letters, 2006, 31, 2795.	1.7	41
79	Polarization insensitive phase modulator for quantum cryptosystems. Optics Express, 2006, 14, 4264.	1.7	19
80	Single-crystal Sapphire Based Optical Polarimetric Sensor for High Temperature Measurement. Sensors, 2006, 6, 823-834.	2.1	10
81	Interrogation of multiplexed fiber grating sensors using frequency-shifted interferometer. , 2006, , .		0
82	Quantum key distribution based on a Sagnac loop interferometer and polarization-insensitive phase modulators. , 2006, , .		3
83	Frequency-shifted interferometer and its applications. , 2006, , .		0
84	Micromachined 2-D scanner for 3-D optical coherence tomography. Sensors and Actuators A: Physical, 2005, 117, 331-340.	2.0	77
85	Endoscopic Doppler optical coherence tomography in the human GI tract: initial experience. Gastrointestinal Endoscopy, 2005, 61, 879-890.	0.5	130
86	High-resolution, large dynamic range fiber length measurement based on a frequency-shifted asymmetric Sagnac interferometer. Optics Letters, 2005, 30, 3287.	1.7	38
87	Practical decoy state for quantum key distribution. Physical Review A, 2005, 72, .	1.0	785
88	Single-crystal sapphire-based optical high-temperature sensor for harsh environments. Optical Engineering, 2004, 43, 157.	0.5	41
89	Dynamic focus control in high-speed optical coherence tomography based on a microelectromechanical mirror. Optics Communications, 2004, 232, 123-128.	1.0	145
90	Self-compensating fiber optic flow sensor system and its field applications. Applied Optics, 2004, 43, 1752.	2.1	16

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91	In vivo color Doppler optical coherence tomography of mucocutaneous telangiectases in hereditary hemorrhagic telangiectasia. Gastroenterology, 2003, 124, A17.	0.6	0
92	In vivo feasibility of endoscopic catheter-based Doppler optical coherence tomography. Gastroenterology, 2003, 124, A49-A50.	0.6	2
93	In Vivo Doppler Optical Coherence Tomography of Mucocutaneous Telangiectases in Hereditary Hemorrhagic Telangiectasia. Gastrointestinal Endoscopy, 2003, 58, 591-598.	0.5	15
94	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
95	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
96	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
97	Novel data processing techniques for dispersive white light interferometer. Optical Engineering, 2003, 42, 3165.	0.5	143
98	Optical time-domain reflectometry interrogation of multiplexing low-reflectance Bragg-grating-based sensor system. Optical Engineering, 2003, 42, 1597.	0.5	15
99	Single-Crystal Sapphire High-Temperature Measurement Instrument for Coal Gasification. AIP Conference Proceedings, 2003, , .	0.3	1
100	Double-Tubing Encapsulated Fiber Optic Temperature Sensor. AIP Conference Proceedings, 2003, , .	0.3	6
101	High-sensitivity detection and monitoring of microcirculation using cutaneous and catheter probes for Doppler optical coherence tomography. , 2003, , .		5
102	<title>Single-crystal sapphire high-temperature sensor</title>. , 2002, 4578, 191.		0
103	BPDI-based optical sensor for real-time high-temperature measurements for coal gasification process. , 2002, 4920, 9.		0
104	<title>Diffusion of water in optical fibers at elevated temperature and pressure</title>. , 2002, 4578, 239.		2
105	<title>Fiber optic pressure and temperature sensors for oil down hole application</title>. , 2002, 4578, 182.		31
106	<title>Practical studies on bridge compensating technique in fiber optic sensors</title>. , 1998, , .		0
107	Single-crystal sapphire high temperature sensing based on broadband polarimetric interferometer. , 0, , .		2
108	Sagnac Quantum Key Distribution Using Novel Polarization-Insensitive Phase Modulators Based On Frequency Shift. , 0, , .		0