Qing Li

List of Publications by Year
in descending order

48 papers	1,949 citations	430874 18 h-index	526287 27 g-index
48 all docs	48 docs citations	48 times ranked	1871 citing authors

#	ARTICLE	IF	CITATIONS
1	An optical-frequency synthesizer using integrated photonics. Nature, 2018, 557, 81-85.	27.8	550
2	Stably accessing octave-spanning microresonator frequency combs in the soliton regime. Optica, 2017, 4, 193.	9.3	235
3	Efficient and low-noise single-photon-level frequency conversion interfaces using silicon nanophotonics. Nature Photonics, 2016, 10, 406-414.	31.4	184
4	Chip-integrated visibleâ€“telecom entangled photon pair source for quantum communication. Nature Physics, 2019, 15, 373-381.	16.7	148
5	Photonic chip for laser stabilization to an atomic vapor with 10^{âˆ’11} instability. Optica, 2018, 5, 443.	9.3	95
6	Efficient telecom-to-visible spectral translation through ultralow power nonlinear nanophotonics. Nature Photonics, 2019, 13, 593-601.	31.4	82
7	Photonic waveguide to free-space Gaussian beam extreme mode converter. Light: Science and Applications, 2018, 7, 72.	16.6	66
8	Design and demonstration of compact, wide bandwidth coupled-resonator filters on a siliconon-insulator platform. Optics Express, 2009, 17, 2247.	3.4	60
9	Vertical integration of high-Q silicon nitride microresonators into silicon-on-insulator platform. Optics Express, 2013, 21, 18236.	3.4	58
10	Systematic Engineering of Waveguide-Resonator Coupling for Silicon Microring/Microdisk/Racetrack Resonators: Theory and Experiment. IEEE Journal of Quantum Electronics, 2010, 46, 1158-1169.	1.9	57
11	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. Optica, 2019, 6, 563.	9.3	55
12	The Nanolithography Toolbox. Journal of Research of the National Institute of Standards and Technology, 2016, 121, 464.	1.2	54
13	Broadband resonator-waveguide coupling for efficient extraction of octave-spanning microcombs. Optics Letters, 2019, 44, 4737.	3.3	49
14	Milliwatt-threshold visibleâ€“telecom optical parametric oscillation using silicon nanophotonics. Optica, 2019, 6, 1535.	9.3	44
15	Kerr-Microresonator Soliton Frequency Combs at Cryogenic Temperatures. Physical Review Applied, 2019, 12, .	3.8	37
16	Phased-locked two-color single soliton microcombs in dispersion-engineered Si₃N₄ resonators. Optics Letters, 2018, 43, 2772.	3.3	34
17	Azimuthal-order variations of surface-roughness-induced mode splitting and scattering loss in high-Q microdisk resonators. Optics Letters, 2012, 37, 1586.	3.3	25
18	pyLLE: A Fast and User Friendly Lugiato-Lefever Equation Solver. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-13.	1.2	19

#	Article	IF	Citations
19	Quantitative modeling of coupling-induced resonance frequency shift in microring resonators. Optics Express, 2009, 17, 23474.	3.4	16
20	Low-Loss Microdisk-Based Delay Lines for Narrowband Optical Filters. IEEE Photonics Technology Letters, 2012, 24, 1276-1278.	2.5	13
21	A Temperature-Insensitive Third-Order Coupled-Resonator Filter for On-Chip Terabit/s Optical Interconnects. IEEE Photonics Technology Letters, 2010, 22, 1768-1770.	2.5	12
22	Exceptional points in lossy media lead to deep polynomial wave penetration with spatially uniform power loss. Nature Nanotechnology, 2022, 17, 583-589.	31.5	12
23	Advanced Technologies for Quantum Photonic Devices Based on Epitaxial Quantum Dots. Advanced Quantum Technologies, 2020, 3, 1900034.	3.9	11
24	Magnesiothermically Formed Porous Silicon Thin Films on Siliconâ€onâ€Insulator Optical Microresonators for Highâ€Sensitivity Detection. Advanced Optical Materials, 2014, 2, 235-239.	7.3	10
25	Tunable Quantum Beat of Single Photons Enabled by Nonlinear Nanophotonics. Physical Review Applied, 2019, 12, .	3.8	8
26	Improved coupled-mode theory for high-index-contrast photonic platforms. Physical Review A, 2020, 102, .	2.5	5
27	Compact fluorescence sensor using on-chip silicon nitride microdisk. , 2011, , .		4
28	Improvement of thermal properties of ultra-high Q silicon microdisk resonators. , 2008, , .		1
29	Optimized design of flat-band finite-size coupled resonator optical waveguides with reduced in-band distortions. , 2008, , .		1
30	Large-scale array of small high-Q microdisk resonators for onchip spectral analysis. , 2009, , .		1
31	Low-loss microdisk-based delay lines for narrowband optical filters. , 2010, , .		1
32	Efficient second harmonic generation in a Si3 N4 microring. , 2020, , .		1
33	Tunable quantum beat of single photons enabled by nonlinear nanophotonics. Physical Review Applied, 2019, 12, .	3.8	1
34	Suppressing the Thermal Broadening/Instability of On-chip Ultra-high Q Silicon Microdisk Resonators. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
35	Implementation of a coupling-tunable resonator for efficient high-bandwidth nonlinear silicon photonics applications. , 2008, , .		0
36	Sustained GHz oscillations in ultra-high Q silicon microresonators. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Interferometrically-coupled traveling-wave resonators for nonlinear optics applications. , 2009, , .		0
38	Fully reconfigurable compact RF photonic filters using high-Q silicon microdisk resonators. , 2010, , .		0
39	Novel resonance-based silicon nanophotonic structures. , 2010, , .		0
40	Optimization of filter architecture for high-order RF-photonic filters on SOI. , 2011, , .		0
41	Sidewall roughness-induced mode splitting and scattering loss in high Q microdisk resonators: Theory and experiment. , 2011, , .		0
42	On-chip multiplexed photonic gas sensing for the detection of volatile organic compounds. , 2012, , .		0
43	Tunable narrowband filters based on SiN-on-SOI platform. , 2012, , .		0
44	Vertertical integration of silicon nitride on siliconon-insulator platform. , 2012, , .		0
45	Exceptional Points in Photonic Grating Band Diagrams Lead to Decay-Free Radiation. , 2021, , .		0
46	Uniformly-Distributed Energy Losses in Photonic Gratings Enabled by Exceptional Points in Band Diagrams. , 2021, , .		0
47	Sub-mW optical parametric oscillation across visible and telecommunications bands using silicon nanophotonics. , 2019, , .		0
48	Efficient widely-separated optical parametric oscillation. , 2020, , .		0