Shayan Mookherjea

List of Publications by Year
in descending order

46	2,069	279798 23	265206 42
papers	citations	h-index	g-index

46	46	46	1708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bonded thin film lithium niobate modulator on a silicon photonics platform exceeding 100 GHz 3-dB electrical modulation bandwidth. Optics Express, 2018, 26, 23728.	3.4	222
2	High Quality Entangled Photon Pair Generation in Periodically Poled Thin-Film Lithium Niobate Waveguides. Physical Review Letters, 2020, 124, 163603.	7.8	167
3	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
4	Telecommunications-band heralded single photons from a silicon nanophotonic chip. Applied Physics Letters, 2012, 100, .	3.3	133
5	Ultra-High-Contrast and Tunable-Bandwidth Filter Using Cascaded High-Order Silicon Microring Filters. IEEE Photonics Technology Letters, 2013, 25, 1543-1546.	2.5	131
6	Localization in silicon nanophotonic slow-light waveguides. Nature Photonics, 2008, 2, 90-93.	31.4	120
7	On-chip microfluidic tuning of an optical microring resonator. Applied Physics Letters, 2006, 88, 111107.	3.3	95
8	Lightwave Circuits in Lithium Niobate through Hybrid Waveguides with Silicon Photonics. Scientific Reports, 2016, 6, 22301.	3.3	90
9	Silicon photonic entangled photon-pair and heralded single photon generation with CAR > 12,000 and g^(2)(0) < 0006. Optics Express, 2017, 25, 32995.	3.4	78
10	A microfluidic 2Ã—2 optical switch. Applied Physics Letters, 2004, 85, 6119-6121.	3.3	76
11	Statistics of light transport in 235-ring silicon coupled-resonator optical waveguides. Optics Express, 2010, 18, 26505.	3.4	74
12	Effect of disorder on slow light velocity in optical slow-wave structures. Optics Letters, 2007, 32, 289.	3.3	69
13	Achieving beyond-100-GHz large-signal modulation bandwidth in hybrid silicon photonics Mach Zehnder modulators using thin film lithium niobate. APL Photonics, 2019, 4, .	5.7	63
14	Shallow-etched thin-film lithium niobate waveguides for highly-efficient second-harmonic generation. Optics Express, 2020, 28, 19669.	3.4	58
15	Controlling the spectrum of photons generated on a silicon nanophotonic chip. Nature Communications, 2014, 5, 5489.	12.8	42
16	Dispersion characteristics of coupled-resonator optical waveguides. Optics Letters, 2005, 30, 2406.	3.3	41
17	Toward 3D Integrated Photonics Including Lithium Niobate Thin Films: A Bridge Between Electronics, Radio Frequency, and Optical Technology. IEEE Nanotechnology Magazine, 2019, 13, 18-33.	1.3	37
18	Waveguide dispersion effects in silicon-on-insulator coupled-resonator optical waveguides. Optics Letters, 2010, 35, 3030.	3.3	36

#	Article	IF	Citations
19	Efficient CW Four-Wave Mixing in Silicon-on-Insulator Micro-Rings With Active Carrier Removal. IEEE Photonics Technology Letters, 2013, 25, 1699-1702.	2.5	36
20	Poling thin-film x-cut lithium niobate for quasi-phase matching with sub-micrometer periodicity. Journal of Applied Physics, 2020, 127, .	2.5	35
21	The nonlinear microring add-drop filter. Optics Express, 2008, 16, 15130.	3.4	26
22	Design of high-bandwidth, low-voltage and low-loss hybrid lithium niobate electro-optic modulators. JPhys Photonics, 2021, 3, 012001.	4.6	26
23	Low-power continuous-wave four-wave mixing in silicon coupled-resonator optical waveguides. Optics Letters, 2011, 36, 2964.	3.3	25
24	Electronic control of optical Anderson localization modes. Nature Nanotechnology, 2014, 9, 365-371.	31.5	24
25	Semiconductor coupled-resonator optical waveguide laser. Applied Physics Letters, 2004, 84, 3265-3267.	3.3	23
26	Large Dispersion of Silicon Directional Couplers Obtained via Wideband Microring Parametric Characterization. IEEE Photonics Technology Letters, 2012, 24, 1242-1244.	2.5	23
27	â€œSeeing Is Believingâ€â€”In-Depth Analysis by Co-Imaging of Periodically-Poled X-Cut Lithium Niobate Thin Films. Crystals, 2021, 11, 288.	2.2	23
28	Design of folded hybrid silicon carbide-lithium niobate waveguides for efficient second-harmonic generation. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 593.	2.1	15
29	Optical diagnostic methods for monitoring the poling of thin-film lithium niobate waveguides. Optics Express, 2019, 27, 12025.	3.4	15
30	A modular fabrication process for thin-film lithium niobate modulators with silicon photonics. JPhys Photonics, 2022, 4, 024001.	4.6	13
31	Quantitative infrared imaging of silicon-on-insulator microring resonators. Optics Letters, 2010, 35, 784.	3.3	12
32	Oscilloscopic Capture of Greater-Than-100 GHz, Ultra-Low Power Optical Waveforms Enabled by Integrated Electrooptic Devices. Journal of Lightwave Technology, 2020, 38, 166-173.	4.6	12
33	Quantum light generation on a silicon chip using waveguides and resonators. Optics Express, 2013, 21, 5171.	3.4	11
34	Modeling of Multiband Transmission in Long Silicon Coupled-Resonator Optical Waveguides. IEEE Photonics Technology Letters, 2011, 23, 872-874.	2.5	10
35	Photon pair generation using a silicon photonic hybrid laser. APL Photonics, 2018, 3, .	5.7	10
36	Prospects for photon-pair generation using silicon microring resonators with two photon absorption and free carrier absorption. OSA Continuum, 2020, 3, 1138.	1.8	9

#	Article	IF	Citations
37	Avoiding bandwidth collapse in long chains of coupled optical microresonators. Optics Letters, 2011, 36, 4557.	3.3	8
38	Mid-Infrared Wavelength Conversion in Silicon Waveguides Pumped by Silica-Fiber-Based Source. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 612-620.	2.9	8
39	Mode cycling in microring optical resonators. Optics Letters, 2005, 30, 2751.	3.3	7
40	High dynamic range microscope infrared imaging of silicon nanophotonic devices. Optics Letters, 2012, 37, 4705.	3.3	6
41	Progress towards a widely usable integrated silicon photonic photon-pair source. OSA Continuum, 2020, 3, 1398.	1.8	4
42	mu-Raman Investigations of Periodically-Poled X-Cut Thin-Film Lithium Niobate for Integrated Optics. , 2020, , .		2
43	On-chip microfluidic tuning of an microring resonator. , 2006, , .		1
44	Heuristic Model for Rapid Characterization of a SiP Switch Chip. Journal of Lightwave Technology, 2018, 36, 4680-4690.	4.6	1
45	Multi-slot silicon optical waveguides. , 2008, , .		0
46	Full-Speed Testing of Silicon Photonic Electro-Optic Modulators from Picowatt-level Scattered Light. , 2020, , .		0