Shibnath Pathak

List of Publications by Year
in descending order

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30 papers	1,204 citations	516710 16 h-index	677142 22 g-index
30 all docs	30 docs citations	30 times ranked	1323 citing authors

#	Article	IF	Citations
1	Silicon and silicon nitride photonic circuits for spectroscopic sensing on-a-chip [Invited]. Photonics Research, 2015, 3, B47.	7.0	173
2	Germanium-on-Silicon Mid-Infrared Arrayed Waveguide Grating Multiplexers. IEEE Photonics Technology Letters, 2013, 25, 1805-1808.	2.5	127
3	Demonstration of Silicon-on-insulator mid-infrared spectrometers operating at 38Î¼m. Optics Express, 2013, 21, 11659.	3.4	111
4	Low-loss compact multilayer silicon nitride platform for 3D photonic integrated circuits. Optics Express, 2015, 23, 21334.	3.4	108
5	Optimized Silicon AWG With Flattened Spectral Response Using an MMI Aperture. Journal of Lightwave Technology, 2013, 31, 87-93.	4.6	105
6	Design trade-offs for silicon-on-insulator-based AWGs for (de)multiplexer applications. Optics Letters, 2013, 38, 2961.	3.3	89
7	Silicon-on-insulator spectrometers with integrated GaInAsSb photodiodes for wide-band spectroscopy from 1510 to 2300 nm. Optics Express, 2013, 21, 6101.	3.4	82
8	Compact Silicon Nitride Arrayed Waveguide Gratings for Very Near-Infrared Wavelengths. IEEE Photonics Technology Letters, 2015, 27, 137-140.	2.5	74
9	Effect of Mask Discretization on Performance of Silicon Arrayed Waveguide Gratings. IEEE Photonics Technology Letters, 2014, 26, 718-721.	2.5	40
10	Compact SOI-based polarization diversity wavelength de-multiplexer circuit using two symmetric AWGs. Optics Express, 2012, 20, B493.	3.4	36
11	III-V-on-silicon multi-frequency lasers. Optics Express, 2013, 21, 13675.	3.4	32
12	Simultaneous Interrogation of Multiple Fiber Bragg Grating Sensors Using an Arrayed Waveguide Grating Filter Fabricated in SOI Platform. IEEE Photonics Journal, 2015, 7, 1-11.	2.0	31
13	Low-Loss Compact Silicon Nitride Arrayed Waveguide Gratings for Photonic Integrated Circuits. IEEE Photonics Journal, 2017, 9, 1-5.	2.0	30
14	Athermal arrayed waveguide gratings in silicon-on-insulator by overlaying a polymer cladding on narrowed arrayed waveguides. Applied Optics, 2012, 51, 1251.	1.8	26
15	Silicon-on-insulator shortwave infrared wavelength meter with integrated photodiodes for on-chip laser monitoring. Optics Express, 2014, 22, 27300.	3.4	26
16	Silicon nitride tri-layer vertical Y-junction and 3D couplers with arbitrary splitting ratio for photonic integrated circuits. Optics Express, 2017, 25, 10474.	3.4	25
17	Improving the design cycle for nanophotonic components. Journal of Computational Science, 2013, 4, 313-324.	2.9	16
18	Rapidly reconfigurable high-fidelity optical arbitrary waveform generation in heterogeneous photonic integrated circuits. Optics Express, 2017, 25, 8872.	3.4	14

#	Article	IF	Citations
19	Integrated design for integrated photonics: from the physical to the circuit level and back. Proceedings of SPIE, 2013, , .	0.8	12
20	193nm immersion lithography for high-performance silicon photonic circuits. Proceedings of SPIE, 2014, , .	0.8	11
21	IPKISS: A parametric design and simulation framework for silicon photonics. , 2012, , .		7
22	1Ã—256 Multi-layer, low-loss, Si3N4 waveguide optical phased arrays with 0.050Â° Instantaneous-Field-of-View. , 2017, , .		7
23	Silicon photonics non-resonant wavelength filters: comparison between AWGs, echelle gratings, and cascaded Mach-Zehnder filters. Proceedings of SPIE, 2015, , .	0.8	6
24	Photonics Integrated Circuits. , 2019, , 219-270.		5
25	Si3N4 Multilayer Platform for Photonic Integrated Circuits. , 2015, , .		3
26	Tri-layer, Vertical Y-junction, Si3N4/SiO2 3D Photonic Integrated Circuits with Arbitrary Splitting Ratio. , 2016, , .		3
27	Experimental Demonstration of Compact 16 channels-50 GHz Si3N4 Arrayed Waveguide Grating. , 2015, , .		2
28	Waveguide Bends for Suppressed Mode Coupling. IEEE Journal of Quantum Electronics, 2020, 56, 1-10.	1.9	2
29	Integrated grating coupler/power splitter for on-chip optical power distribution. , 2014, , .		1
30	A fast 4-channel silicon switch using an AWG with 12 carrier depletion modulators. , 2014, , .		0