

Xiaogang Chen

List of Publications by Year in descending order

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27
papers

1,440
citations

759055

12
h-index

940416

16
g-index

27
all docs

27
docs citations

27
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering nonlinearities in nanoscale optical systems: physics and applications in dispersion-engineered silicon nanophotonic wires. <i>Advances in Optics and Photonics</i> , 2009, 1, 162.	12.1	221
2	Self-phase-modulation in submicron silicon-on-insulator photonic wires. <i>Optics Express</i> , 2006, 14, 5524.	1.7	198
3	Supercontinuum generation in silicon photonic wires. <i>Optics Express</i> , 2007, 15, 15242.	1.7	180
4	Theory of Raman-Mediated Pulsed Amplification in Silicon-Wire Waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2006, 42, 160-170.	1.0	157
5	Ultrafast-pulse self-phase modulation and third-order dispersion in Si photonic wire-waveguides. <i>Optics Express</i> , 2006, 14, 12380.	1.7	134
6	Ultrahigh-Bandwidth Silicon Photonic Nanowire Waveguides for On-Chip Networks. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 398-400.	1.3	128
7	Cross-phase modulation-induced spectral and temporal effects on co-propagating femtosecond pulses in silicon photonic wires. <i>Optics Express</i> , 2007, 15, 1135.	1.7	107
8	Nonlinear-Optical Phase Control in Dispersion-Engineered Si Photonic Wires. <i>Optics Express</i> , 2008, 16, 1280.	1.7	93
9	Conformal dielectric overlayers for engineering dispersion and effective nonlinearity of silicon nanophotonic wires. <i>Optics Letters</i> , 2008, 33, 2889.	1.7	68
10	Modulation instability in silicon photonic nanowires. <i>Optics Letters</i> , 2006, 31, 3609.	1.7	50
11	Monolithically integrated self-rolled-up microtube-based vertical coupler for three-dimensional photonic integration. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	33
12	Third-Order Dispersion and Ultrafast-Pulse Propagation in Silicon Wire Waveguides. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2617-2619.	1.3	32
13	Enhanced axial confinement in a monolithically integrated self-rolled-up SiNx vertical microring photonic coupler. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
14	Passive wavelength tuning and multichannel photonic coupling using monolithically integrated vertical microresonators on ridge waveguides. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	9
15	An analytical model to investigate the resonant modes of the self-rolled-up microtube using conformal transformation. <i>Optics Express</i> , 2014, 22, 16363.	1.7	8
16	Demonstration of 300 Gbps Error-Free Transmission of WDM Data Stream in Silicon Photonic Wires. , 2007, , .		5
17	Supercontinuum generation in silicon photonic wires. , 2008, , .		5
18	Numerical Studies of Dispersion Properties of SOI Photonic Nanowires. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
19	Ultra-high-Bandwidth WDM Signal Integrity in Silicon-on-Insulator Nanowire Waveguides. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
20	Raman-mediated pulsed amplification in silicon wires. , 2005, , .		0
21	Ultrafast Pulse Propagation in Zero-Dispersion Silicon Wire based OTDM System. , 2006, , .		0
22	Femtosecond pulse propagation in silicon photonic wires. , 2006, , .		0
23	Determination of Third-Order Dispersion Coefficient and Observation of Soliton Radiation in Si-Wire Waveguides. , 2007, , .		0
24	XPM-induced modulation instability in SOI photonic nanowires. , 2006, , .		0
25	Design and fabrication of an ultra-compact silicon on insulator demultiplexer based on arrayed waveguide gratings. , 2008, , .		0
26	Axial confinement in the monolithic integrated self-rolled-up vertical SiN _x microring resonator on a ridge waveguide. , 2016, , .		0
27	Monolithic integration of vertical SiN _x microrings on a ridge waveguide to achieve multi-channel photonic coupling. , 2017, , .		0