

Mario Paniccia

List of Publications by Year in descending order

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59
papers

6,555
citations

257450

24
h-index

477307

29
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59
all docs

59
docs citations

59
times ranked

3924
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated self-heterodyne method for ultra-low-noise laser linewidth measurements. Optics Express, 2022, 30, 25147.	3.4	12
2	Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. Nature Photonics, 2021, 15, 346-353.	31.4	260
3	Seamless multi-reticle photonics. Optics Letters, 2021, 46, 2984.	3.3	5
4	Reaching fiber-laser coherence in integrated photonics. Optics Letters, 2021, 46, 5201.	3.3	61
5	High-performance lasers for fully integrated silicon nitride photonics. Nature Communications, 2021, 12, 6650.	12.8	61
6	High-Speed Photonic Integrated Chip on a Silicon Platform. Topics in Applied Physics, 2011, , 169-186.	0.8	0
7	Wavelength Division Multiplexing Based Photonic Integrated Circuits on Silicon-on-Insulator Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 23-32.	2.9	137
8	A Silicon Modulator Enabling RF Over Fiber for 802.11 OFDM Signals. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 141-148.	2.9	37
9	Two-photon-absorption-based optical power monitor in silicon rib waveguides. , 2010, , .		2
10	Efficient wavelength conversion via four-wave mixing in sub-micron silicon rib waveguides. , 2009, , .		0
11	A cascaded silicon Raman laser. Nature Photonics, 2008, 2, 170-174.	31.4	155
12	Characterization of efficient wavelength conversion by four-wave mixing in sub-micron silicon waveguides. Optics Express, 2008, 16, 16735.	3.4	100
13	Recent development in a high-speed silicon optical modulator based on reverse-biased pn diode in a silicon waveguide. Semiconductor Science and Technology, 2008, 23, 064001.	2.0	37
14	Mid-span dispersion compensation via optical phase conjugation in silicon waveguides. , 2008, , .		2
15	Optical silicon modulator and photonic integration. , 2008, , .		1
16	200 Gbps photonic integrated chip on silicon platform. , 2008, , .		1
17	Silicon photonic modulator and integration for high-speed applications. , 2008, , .		2
18	Silicon based chip-scale nonlinear optical devices: Laser, amplifier, and wavelength converter. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
19	Silicon photonic integration for high-speed applications. , 2008, , .		5
20	Silicon-based nonlinear optical devices for high-speed optical communications. , 2008, , .		0
21	A monolithic integrated low-threshold Raman silicon laser. , 2008, , .		0
22	Characterization of wavelength conversion by four wave mixing in silicon waveguides. , 2008, , .		0
23	Developments in Gigascale Silicon Optical Modulators Using Free Carrier Dispersion Mechanisms. Advances in Optical Technologies, 2008, 2008, 1-10.	0.8	23
24	Photonic Integration in Silicon for High-speed Applications. , 2008, , .		0
25	Continuous tuning of silicon Raman laser for molecular spectroscopy. , 2007, , .		0
26	Experimental and Theoretical Analysis of Thermal Impedance in a Hybrid Silicon Evanescent Laser. , 2007, , .		1
27	Monolithic integrated Raman silicon lasers and amplifiers. , 2007, , .		0
28	Wiring electronics with light. Nature Photonics, 2007, 1, 153-155.	31.4	131
29	All-Optical Wavelength Conversion at 40 Gb/s Data Rate in Silicon Waveguides. , 2007, , .		1
30	Monolithic integrated ring resonator Raman silicon laser and amplifier. , 2007, , .		5
31	Integrated silicon photonics for optical networks [Invited]. Journal of Optical Networking, 2007, 6, 25.	2.5	29
32	Raman amplification of 40 Gb/s data in low-loss silicon waveguides. Optics Express, 2007, 15, 357.	3.4	28
33	High-speed optical modulation based on carrier depletion in a silicon waveguide. Optics Express, 2007, 15, 660.	3.4	631
34	Silicon Optical Modulator for High-speed Applications. , 2007, , .		15
35	High-speed Silicon Modulator for Future VLSI Interconnect. , 2007, , .		9
36	Low-threshold continuous-wave Raman silicon laser. Nature Photonics, 2007, 1, 232-237.	31.4	259

#	ARTICLE	IF	CITATIONS
37	Silicon Photonic Integrated Circuits for Optical Interconnect. , 2007, , .		0
38	High efficiency wavelength conversion of 10 Gb/s data in silicon waveguides. Optics Express, 2006, 14, 1182.	3.4	188
39	Monolithic integrated Raman silicon laser. Optics Express, 2006, 14, 6705.	3.4	96
40	Demonstration of wavelength conversion at 40 Gb/s data rate in silicon waveguides. Optics Express, 2006, 14, 11721.	3.4	150
41	SOI-based monolithic integration of SiON and Si planar optical circuits. , 2006, , .		2
42	Silicon based laser, amplifier, and wavelength converter for optoelectronic integration. , 2006, , .		5
43	Advances in silicon photonic devices for silicon-based optoelectronic applications. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 223-228.	2.7	16
44	Recent development on silicon-based Raman lasers and amplifiers. , 2006, 6389, 28.		2
45	High Speed Metalâ€“Oxideâ€“Semiconductor Capacitor-Based Silicon Optical Modulators. Japanese Journal of Applied Physics, 2006, 45, 6603-6608.	1.5	7
46	Recent Development on Silicon Raman Lasers and Amplifiers. , 2006, , .		2
47	Silicon Photonics: Recent Development on Silicon Based Laser Amplifier and Wavelength Converter. , 2006, , .		0
48	Enhanced polarization-independent optical ring resonators on silicon-on-insulator. , 2005, 5730, 195.		4
49	Recent development in silicon photonics: 2.5 Gb/s silicon optical modulator and silicon Raman laser. , 2005, , .		5
50	An all-silicon Raman laser. Nature, 2005, 433, 292-294.	27.8	792
51	A continuous-wave Raman silicon laser. Nature, 2005, 433, 725-728.	27.8	1,127
52	Net continuous wave optical gain in a low loss silicon-on-insulator waveguide by stimulated Raman scattering. Optics Express, 2005, 13, 519.	3.4	174
53	Lossless optical modulation in a silicon waveguide using stimulated Raman scattering. Optics Express, 2005, 13, 1716.	3.4	79
54	Recent Results in Silicon Photonics. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
55	Raman gain and nonlinear optical absorption measurements in a low-loss silicon waveguide. Applied Physics Letters, 2004, 85, 2196-2198.	3.3	141
56	Polarization-independent optical racetrack resonators using rib waveguides on silicon-on-insulator. Applied Physics Letters, 2004, 85, 5523-5525.	3.3	108
57	A high-speed silicon optical modulator based on a metal-oxide-semiconductor capacitor. Nature, 2004, 427, 615-618.	27.8	1,423
58	Net optical gain in a low loss silicon-on-insulator waveguide by stimulated Raman scattering. Optics Express, 2004, 12, 4261.	3.4	219
59	Silicon Photonic Applications. , 0, , 297-325.		3