

Matteo Cherchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

451
citations

11
h-index

19
g-index

72
ext. papers

594
ext. citations

2.5
avg, IF

3.26
L-index

#	Paper	IF	Citations
52	Wavelength-flattened directional couplers: a geometrical approach: erratum.. <i>Applied Optics</i> , 2022 , 61, 1757	1.7	
51	Compact multi-million Q resonators and 100 MHz passband filter bank in a thick-SOI photonics platform. <i>Optics Letters</i> , 2020 , 45, 3005-3008	3	6
50	Precise length definition of active GaAs-based optoelectronic devices for low-loss silicon photonics integration. <i>Optics Letters</i> , 2020 , 45, 943-946	3	1
49	GaSb diode lasers tunable around 2.6 μm using silicon photonics resonators or external diffractive gratings. <i>Applied Physics Letters</i> , 2020 , 116, 081105	3.4	4
48	Open-Access 3- μm SOI Waveguide Platform for Dense Photonic Integrated Circuits. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	20
47	On-Chip SOI Delay Line Bank for Optical Buffers and Time Slot Interchangers. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 31-34	2.2	16
46	Multicast-Enabling Optical Switch Design Employing Si Buffering and Routing Elements. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 712-715	2.2	17
45	3-micron Silicon Photonics 2018 ,		5
44	Low loss GaInNAs/GaAs gain waveguides with U-bend geometry for single-facet coupling in hybrid photonic integration. <i>Applied Physics Letters</i> , 2018 , 113, 041104	3.4	4
43	Integrated multi-wavelength mid-IR light source for gas sensing 2018 ,		4
42	Optical interconnects based on VCSELs and low-loss silicon photonics 2018 ,		2
41	Fabrication tolerant flat-top interleavers 2017 ,		1
40	Thick-SOI Echelle grating for any-to-any wavelength routing interconnection in multi-socket computing environments 2017 ,		4
39	Multi-wavelength mid-IR light source for gas sensing 2017 ,		3
38	Integrated SiGe Detectors for Si Photonic Sensor Platforms. <i>Proceedings (mdpi)</i> , 2017 , 1, 559	0.3	2
37	Faraday rotation in silicon waveguides 2017 ,		3
36	VTT's micron-scale silicon rib+strip waveguide platform 2016 ,		1

35	Flat-top MZI filters: a novel robust design based on MMI splitters 2016 ,		2
34	Total internal reflection mirrors with ultra-low losses in 3 μm thick SOI waveguides 2015 ,		1
33	Silicon photonics for optical connectivity: Small footprint with large dimensions 2015 ,		2
32	MMI resonators based on metal mirrors and MMI mirrors: an experimental comparison. <i>Optics Express</i> , 2015 , 23, 5982-93	3.3	5
31	Multi-wavelength transceiver integration on SOI for high-performance computing system applications 2015 ,		1
30	DPSK-Demodulation based on Ultra-Compact micron-scale SOI platform 2015 ,		2
29	Dual SOA-MZI Wavelength Converters Based on III-V Hybrid Integration on a μm -Scale Si Platform. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 560-563	2.2	29
28	Dual-facet coupling of SOA array on 4- μm silicon-on-insulator implementing a hybrid integrated SOA-MZI wavelength converter 2014 ,		1
27	Launching of multi-project wafer runs in ePIXfab with micron-scale silicon rib waveguide technology 2014 ,		2
26	Fabrication-tolerant optical filters for dense integration on a micron-scale SOI platform 2014 ,		2
25	Silicon wavelength-selective partial-drop broadcast filter bank. <i>Optics Letters</i> , 2014 , 39, 5459-62	3	3
24	The Euler bend: paving the way for high-density integration on micron-scale semiconductor platforms 2014 ,		3
23	Low-loss spiral waveguides with ultra-small footprint on a micron scale SOI platform 2014 ,		5
22	Unconstrained splitting ratios in compact double-MMI couplers. <i>Optics Express</i> , 2014 , 22, 9245-53	3.3	16
21	Dense photonics integration on a micron-scale SOI waveguide platform 2013 ,		1
20	Method for characterization of Si waveguide propagation loss. <i>Optics Express</i> , 2013 , 21, 5391-400	3.3	12
19	Dramatic size reduction of waveguide bends on a micron-scale silicon photonic platform. <i>Optics Express</i> , 2013 , 21, 17814-23	3.3	113
18	The role of nonlinear optical absorption in narrowband difference-frequency terahertz-wave generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 222	1.7	2

17	Exploiting the Optical Quadratic Nonlinearity of Zinc-Blende Semiconductors for Guided-Wave Terahertz Generation: A Material Comparison. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 368-376	2	23
16	Universal Charts for Optical Difference Frequency Generation in the Terahertz Domain. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1009-1013	2	11
15	Integrated Optic Surface Plasmon Resonance Measurements in a Borosilicate Glass Substrate. <i>Sensors</i> , 2008 , 8, 7113-7124	3.8	19
14	Second-harmonic generation in surface periodically poled lithium niobate waveguides: on the role of multiphoton absorption. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 559-565	1.9	8
13	Frequency doubling in surface periodically poled lithium niobate waveguides: competing effects 2007 ,		3
12	Guided-wave frequency doubling in surface periodically poled lithium niobate: competing effects. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1564	1.7	16
11	Proton exchange channel waveguides compatible with surface domain engineering in Lithium Niobate crystals 2006 ,		1
10	Nanopatterned Ferroelectric Crystals for Parametric Generation 2006 ,		1
9	Design scheme for Mach-Zehnder interferometric coarse wavelength division multiplexing splitters and combiners. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1752	1.7	8
8	Wavelength-flattened directional couplers for mirror-symmetric interferometers. <i>Journal of Lightwave Technology</i> , 2005 , 23, 4387-4392	4	4
7	Bloch analysis of finite periodic microring chains. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 109-113	1.9	3
6	Exact analytic expressions for electromagnetic propagation and optical nonlinear generation in finite one-dimensional periodic multilayers. <i>Physical Review E</i> , 2004 , 69, 066602	2.4	3
5	Optical Bloch-mode-induced quasi phase matching of quadratic interactions in one-dimensional photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 296	1.7	8
4	Wavelength-flattened directional couplers: a geometrical approach. <i>Applied Optics</i> , 2003 , 42, 7141-8	1.7	11
3	Polarization splitting and rotating through adiabatic transitions 2003 ,		2
2	Titania inverse opals for infrared optical applications. <i>Optical Materials</i> , 2001 , 17, 11-14	3.3	32
1	Surface periodic poling in lithium niobate and lithium tantalate		1