

Matteo Cherchi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5379038/matteo-cherchi-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Dramatic size reduction of waveguide bends on a micron-scale silicon photonic platform. <i>Optics Express</i> , 2013 , 21, 17814-23	3.3	113
51	Titania inverse opals for infrared optical applications. <i>Optical Materials</i> , 2001 , 17, 11-14	3.3	32
50	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
49	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
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	Integrated Optic Surface Plasmon Resonance Measurements in a Borosilicate Glass Substrate. <i>Sensors</i> , 2008 , 8, 7113-7124	3.8	19
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	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
44	Unconstrained splitting ratios in compact double-MMI couplers. <i>Optics Express</i> , 2014 , 22, 9245-53	3.3	16
43	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
42	Method for characterization of Si waveguide propagation loss. <i>Optics Express</i> , 2013 , 21, 5391-400	3.3	12
41	Universal Charts for Optical Difference Frequency Generation in the Terahertz Domain. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1009-1013	2	11
40	Wavelength-flattened directional couplers: a geometrical approach. <i>Applied Optics</i> , 2003 , 42, 7141-8	1.7	11
39	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
38	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
37	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
36	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

35	MMI resonators based on metal mirrors and MMI mirrors: an experimental comparison. <i>Optics Express</i> , 2015 , 23, 5982-93	3-3	5
34	3-micron Silicon Photonics 2018 ,		5
33	Low-loss spiral waveguides with ultra-small footprint on a micron scale SOI platform 2014 ,		5
32	Thick-SOI Echelle grating for any-to-any wavelength routing interconnection in multi-socket computing environments 2017 ,		4
31	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
30	Wavelength-flattened directional couplers for mirror-symmetric interferometers. <i>Journal of Lightwave Technology</i> , 2005 , 23, 4387-4392	4	4
29	Integrated multi-wavelength mid-IR light source for gas sensing 2018 ,		4
28	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
27	Multi-wavelength mid-IR light source for gas sensing 2017 ,		3
26	Faraday rotation in silicon waveguides 2017 ,		3
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	Frequency doubling in surface periodically poled lithium niobate waveguides: competing effects 2007 ,		3
22	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
21	Bloch analysis of finite periodic microring chains. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 109-113	1-9	3
20	Silicon photonics for optical connectivity: Small footprint with large dimensions 2015 ,		2
19	Integrated SiGe Detectors for Si Photonic Sensor Platforms. <i>Proceedings (mdpi)</i> , 2017 , 1, 559	0-3	2
18	Flat-top MZI filters: a novel robust design based on MMI splitters 2016 ,		2

17	Launching of multi-project wafer runs in ePIXfab with micron-scale silicon rib waveguide technology 2014 ,		2
16	Fabrication-tolerant optical filters for dense integration on a micron-scale SOI platform 2014 ,		2
15	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
14	Polarization splitting and rotating through adiabatic transitions 2003 ,		2
13	DPSK-Demodulation based on Ultra-Compact micron-scale SOI platform 2015 ,		2
12	Optical interconnects based on VCSELs and low-loss silicon photonics 2018 ,		2
11	Fabrication tolerant flat-top interleavers 2017 ,		1
10	Total internal reflection mirrors with ultra-low losses in 3 μ m thick SOI waveguides 2015 ,		1
9	Multi-wavelength transceiver integration on SOI for high-performance computing system applications 2015 ,		1
8	VTT& micron-scale silicon rib+strip waveguide platform 2016 ,		1
7	Dual-facet coupling of SOA array on 4-th silicon-on-insulator implementing a hybrid integrated SOA-MZI wavelength converter 2014 ,		1
6	Dense photonics integration on a micron-scale SOI waveguide platform 2013 ,		1
5	Proton exchange channel waveguides compatible with surface domain engineering in Lithium Niobate crystals 2006 ,		1
4	Nanopatterned Ferroelectric Crystals for Parametric Generation 2006 ,		1
3	Surface periodic poling in lithium niobate and lithium tantalate		1
2	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
1	Wavelength-flattened directional couplers: a geometrical approach: erratum.. <i>Applied Optics</i> , 2022 , 61, 1757	1.7	