

Michal Wasiak

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6974194/michal-wasiak-publications-by-citations.pdf>

Version: 2024-04-27

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.

38
papers

171
citations

8
h-index

11
g-index

54
ext. papers

248
ext. citations

3.2
avg, IF

2.77
L-index

#	Paper	IF	Citations
38	Room-temperature continuous-wave operation of the In(Ga)As/GaAs quantum-dot VCSELs for the 1.3 μm optical-fibre communication. <i>Semiconductor Science and Technology</i> , 2009 , 24, 055003	1.8	17
37	Monolithic Subwavelength High-Index-Contrast Grating VCSEL. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1953-1956	2.2	16
36	Transverse mode control in high-contrast grating VCSELs. <i>Optics Express</i> , 2014 , 22, 20954-63	3.3	14
35	Mathematical rigorous approach to simulate an over-threshold VCSEL operation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1439-1444	3	13
34	Numerical Self-Consistent Analysis of VCSELs. <i>Advances in Optical Technologies</i> , 2012 , 2012, 1-17		12
33	Direct Au-Au bonding technology for high performance GaAs/AlGaAs quantum cascade lasers. <i>Optical and Quantum Electronics</i> , 2015 , 47, 893-899	2.4	11
32	Subwavelength grating as both emission mirror and electrical contact for VCSELs in any material system. <i>Scientific Reports</i> , 2017 , 7, 40348	4.9	9
31	The Vertical-Cavity Surface-Emitting Laser as a Sensing Device. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3185-3192	4	9
30	Switchable double wavelength generating vertical external cavity surface-emitting laser. <i>Optics Express</i> , 2014 , 22, 6447-52	3.3	8
29	Tuning effects in optimisation of GaAs-based InGaAs/GaAs quantum-dot VCSELs. <i>Optics Communications</i> , 2008 , 281, 3163-3170	2	6
28	Spatial-Mode Discrimination in Guided and Antiguided Arrays of Long-Wavelength VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-10	3.8	5
27	Monolithic high-contrast grating planar microcavities. <i>Nanophotonics</i> , 2020 , 9, 913-925	6.3	5
26	Dual-wavelength vertical external-cavity surface-emitting laser: strict growth control and scalable design. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	4
25	A 95-nm-wide Tunable Two-Mode Vertical External Cavity Surface-Emitting Laser. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 2215-2218	2.2	4
24	Exactness of simplified scalar optical approaches in modelling a threshold operation of possible nitride vertical-cavity surface-emitting diode lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3562-3573	1.6	4
23	Influence of Resonator Length on Performance of Nitride TJ VCSEL. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-9	2	3
22	Optimization of Single-Mode Photonic-Crystal Results in Limited Improvement of Emitted Power and Unexpected Broad Range of Tuning. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1360-1366	4	3

21	Quantum-enhanced uniformity of carrier injection into successive quantum wells of multi-quantum-well structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1253-1257	3.257	3
20	Impact of strain on periodic gain structures in vertical external cavity surface-emitting lasers. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	3
19	Below-band-gap absorption in undoped GaAs at elevated temperatures. <i>Optical Materials</i> , 2017 , 64, 1373-141	3.141	2
18	Impact of Heat Spreaders on Thermal Performance of III-N-Based Laser Diode. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 474-482	1.7	2
17	Numerical Investigation of the Impact of ITO, AlInN, Plasmonic GaN and Top Gold Metalization on Semipolar Green EELs. <i>Materials</i> , 2020 , 13,	3.5	2
16	VCSEL modeling with self-consistent models: From simple approximations to comprehensive numerical analysis 2015 ,		2
15	Planar focusing reflectors based on monolithic high contrast gratings: design procedure and comparison with parabolic mirrors. <i>Optics Express</i> , 2020 , 28, 38745-38761	3.3	2
14	Cavity designs for nitride VCSELs with dielectric DBRs operating efficiently at different temperatures. <i>Optics and Laser Technology</i> , 2020 , 132, 106482	4.2	2
13	Analysis of Threshold Currents and Transverse Modes in Nitride VCSELs With Different Resonators. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-7	2	2
12	Intracavity and extracavity-contacted 980-nm oxide-confined VCSELs for optical interconnects and integration 2017 ,		1
11	Single and double oxidations in a 980-nm VCSEL: impact on certain electrical and optical properties 2015 ,		1
10	Absorption and dispersion in undoped epitaxial GaSb layer. <i>Materials Research Express</i> , 2018 , 5, 025907	1.7	1
9	Automated self-consistent approach to modeling of photonic devices 2013 ,		1
8	Transparent electrode employing deep-subwavelength monolithic high-contrast grating integrated with metal. <i>Optics Express</i> , 2020 , 28, 28383-28398	3.3	1
7	Impact of the top DBR in GaAs-based VCSELs on the threshold current, oxide-aperture diameter, and the cavity photon lifetime 2018 ,		1
6	Experimental Demonstration of Light Focusing Enabled by Monolithic High-Contrast Grating Mirrors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25533-25539	9.5	1
5	Energy-efficient VCSELs for integrated optoelectronic and photonic systems 2016 ,		1
4	Electrically Pumped Vertical-External-Cavity Surface-Emitting Lasers With Patterned Tunnel Junction for Single Transversal-Mode Emission. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 485-492	3.8	0

- 3 Numerical model for small-signal modulation response in vertical-cavity surface-emitting lasers. *Journal Physics D: Applied Physics*, **2020**, 53, 345101 3 0
- 2 Chromatic aberration in planar focusing mirrors based on a monolithic high contrast grating. *Optics Express*, **2021**, 29, 30296-30306 3-3
- 1 Effective method for approximating graded-refractive-index layers in optical simulations. *Optics Express*, **2021**, 29, 34477-34493 3-3