

Michal Wasiak

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.

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	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
37	Chromatic aberration in planar focusing mirrors based on a monolithic high contrast grating. <i>Optics Express</i> , 2021 , 29, 30296-30306	3.3	
36	Effective method for approximating graded-refractive-index layers in optical simulations. <i>Optics Express</i> , 2021 , 29, 34477-34493	3.3	
35	Numerical model for small-signal modulation response in vertical-cavity surface-emitting lasers. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 345101	3	0
34	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
33	Transparent electrode employing deep-subwavelength monolithic high-contrast grating integrated with metal. <i>Optics Express</i> , 2020 , 28, 28383-28398	3.3	1
32	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
31	Monolithic high-contrast grating planar microcavities. <i>Nanophotonics</i> , 2020 , 9, 913-925	6.3	5
30	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
29	Influence of Resonator Length on Performance of Nitride TJ VCSEL. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-9	2	3
28	Absorption and dispersion in undoped epitaxial GaSb layer. <i>Materials Research Express</i> , 2018 , 5, 025907	1.7	1
27	The Vertical-Cavity Surface-Emitting Laser as a Sensing Device. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3185-3192	4	9
26	Impact of the top DBR in GaAs-based VCSELs on the threshold current, oxide-aperture diameter, and the cavity photon lifetime 2018 ,		1
25	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
24	Intracavity and extracavity-contacted 980-nm oxide-confined VCSELs for optical interconnects and integration 2017 ,		1
23	Below-band-gap absorption in undoped GaAs at elevated temperatures. <i>Optical Materials</i> , 2017 , 64, 137-141	3.1	2
22	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

21	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
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	Energy-efficient VCSELs for integrated optoelectronic and photonic systems 2016 ,		1
18	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
17	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
16	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
15	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
14	Single and double oxidations in a 980-nm VCSEL: impact on certain electrical and optical properties 2015 ,		1
13	VCSEL modeling with self-consistent models: From simple approximations to comprehensive numerical analysis 2015 ,		2
12	Monolithic Subwavelength High-Index-Contrast Grating VCSEL. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1953-1956	2.2	16
11	Transverse mode control in high-contrast grating VCSELs. <i>Optics Express</i> , 2014 , 22, 20954-63	3.3	14
10	Switchable double wavelength generating vertical external cavity surface-emitting laser. <i>Optics Express</i> , 2014 , 22, 6447-52	3.3	8
9	Automated self-consistent approach to modeling of photonic devices 2013 ,		1
8	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
7	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
6	Numerical Self-Consistent Analysis of VCSELs. <i>Advances in Optical Technologies</i> , 2012 , 2012, 1-17		12
5	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
4	Room-temperature continuous-wave operation of the In(Ga)As/GaAs quantum-dot VCSELs for the 1.3 μ m optical-fibre communication. <i>Semiconductor Science and Technology</i> , 2009 , 24, 055003	1.8	17

- 3 Quantum-enhanced uniformity of carrier injection into successive quantum wells of multi-quantum-well structures. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 1253-1257 3
- 2 Tuning effects in optimisation of GaAs-based InGaAs/GaAs quantum-dot VCSELs. *Optics Communications*, **2008**, 281, 3163-3170 2 6
- 1 Exactness of simplified scalar optical approaches in modelling a threshold operation of possible nitride vertical-cavity surface-emitting diode lasers. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 3562-3573 1.6 4