

Sanna Ranta

List of Publications by Citations

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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.

30
papers

363
citations

11
h-index

18
g-index

43
ext. papers

503
ext. citations

2.5
avg, IF

3.16
L-index

#	Paper	IF	Citations
30	High-efficiency 20 W yellow VECSEL. <i>Optics Express</i> , 2014 , 22, 6372-80	3.3	60
29	Femtosecond mode-locked holmium fiber laser pumped by semiconductor disk laser. <i>Optics Letters</i> , 2012 , 37, 1448-50	3	42
28	Raman fiber laser pumped by a semiconductor disk laser and mode locked by a semiconductor saturable absorber mirror. <i>Optics Letters</i> , 2010 , 35, 3529-31	3	31
27	Mode-locked VECSEL emitting 5 ps pulses at 675 nm. <i>Optics Letters</i> , 2013 , 38, 2289-91	3	25
26	1180-nm VECSEL with output power beyond 20 W. <i>Electronics Letters</i> , 2013 , 49, 59-60	1.1	21
25	Asymmetric waveguide laser diode operated in gain switching mode with high-power optical pulse generation. <i>Electronics Letters</i> , 2010 , 46, 65	1.1	19
24	High-Power 1.48- μm Wafer-Fused Optically Pumped Semiconductor Disk Laser. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 917-919	2.2	18
23	Dual-wavelength generation by vertical external cavity surface-emitting laser. <i>Optics Express</i> , 2007 , 15, 13451-6	3.3	14
22	Narrow linewidth 1118/559 nm VECSEL based on strain compensated GaInAs/GaAs quantum-wells for laser cooling of Mg-ions. <i>Optical Materials Express</i> , 2012 , 2, 1011	2.6	13
21	Optically Pumped Semiconductor Lasers for Precision Spectroscopic Applications. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 719-727	2	12
20	Thermophotonic cooling in GaAs based light emitters. <i>Applied Physics Letters</i> , 2019 , 114, 051101	3.4	11
19	750 nm 1.5 W frequency-doubled semiconductor disk laser with a 44 nm tuning range. <i>Optics Letters</i> , 2015 , 40, 4380-3	3	11
18	Narrow-Linewidth 780-nm DFB Lasers Fabricated Using Nanoimprint Lithography. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 51-54	2.2	11
17	Comparison of single-side and double-side pumping of membrane external-cavity surface-emitting lasers. <i>Optics Letters</i> , 2019 , 44, 1146-1149	3	10
16	AlGaAs-based vertical-external-cavity surface-emitting laser exceeding 4 W of direct emission power in the 740-790 nm spectral range. <i>Optics Letters</i> , 2018 , 43, 1578-1581	3	8
15	72-W vertical-external-cavity surface-emitting laser with 1180-nm emission for laser guide star adaptive optics. <i>Electronics Letters</i> , 2018 , 54, 1135-1137	1.1	8
14	AlGaAs/AlGaInP VECSELs With Direct Emission at 740-nm. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1245-1248	2.2	8

13	Strain compensated 1120nm GaInAs/GaAs vertical external-cavity surface-emitting laser grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 335, 4-9	1.6	8
12	Power scaling and thermal lensing in 825 nm emitting membrane external-cavity surface-emitting lasers. <i>Optics Letters</i> , 2020 , 45, 547	3	8
11	1180nm VECSEL with 50 W output power 2015 ,		4
10	High power (23W) vertical external cavity surface emitting laser emitting at 1180 nm 2013 ,		4
9	Distributed feedback lasers with alternating laterally coupled ridge-waveguide surface gratings. <i>Optics Letters</i> , 2017 , 42, 3141-3144	3	3
8	A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm 2016 ,		2
7	Laterally-corrugated ridge-waveguide distributed feedback lasers at 980 nm. <i>Optical and Quantum Electronics</i> , 2009 , 41, 11-16	2.4	2
6	Thin-film InAs/GaAs quantum dot solar cell with planar and pyramidal back reflectors. <i>Applied Optics</i> , 2020 , 59, 6304-6308	1.7	2
5	Watt-level blue light for precision spectroscopy, laser cooling and trapping of strontium and cadmium atoms. <i>Optics Express</i> , 2021 , 29, 25462-25476	3.3	2
4	GaAs surface passivation for InAs/GaAs quantum dot based nanophotonic devices. <i>Nanotechnology</i> , 2021 , 32, 130001	3.4	2
3	Pulsed high-power yellow-orange VECSEL 2014 ,		1
2	Thermal behavior and power scaling potential of membrane external-cavity surface-emitting lasers (MECSELs). <i>IEEE Journal of Quantum Electronics</i> , 2022 , 1-1	2	1
1	InGaN-diode-pumped AlGaInP VECSEL with sub-kHz linewidth at 689 nm. <i>Optics Express</i> , 2021 , 29, 3258-3268	3.5	1