

Sanna Ranta

List of Publications by Year in descending order

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43
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567247

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23
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43
all docs

43
docs citations

43
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency 20 W yellow VECSEL. Optics Express, 2014, 22, 6372.	3.4	87
2	Femtosecond mode-locked holmium fiber laser pumped by semiconductor disk laser. Optics Letters, 2012, 37, 1448.	3.3	50
3	Raman fiber laser pumped by a semiconductor disk laser and mode locked by a semiconductor saturable absorber mirror. Optics Letters, 2010, 35, 3529.	3.3	44
4	Mode-locked VECSEL emitting 5 ps pulses at 675 nm. Optics Letters, 2013, 38, 2289.	3.3	33
5	1180 nm VECSEL with output power beyond 20 W. Electronics Letters, 2013, 49, 59-60.	1.0	28
6	Comparison of single-side and double-side pumping of membrane external-cavity surface-emitting lasers. Optics Letters, 2019, 44, 1146.	3.3	26
7	Thermophotonic cooling in GaAs based light emitters. Applied Physics Letters, 2019, 114, .	3.3	23
8	Power scaling and thermal lensing in 825 nm emitting membrane external-cavity surface-emitting lasers. Optics Letters, 2020, 45, 547.	3.3	23
9	Asymmetric waveguide laser diode operated in gain switching mode with high-power optical pulse generation. Electronics Letters, 2010, 46, 65.	1.0	21
10	Watt-level blue light for precision spectroscopy, laser cooling and trapping of strontium and cadmium atoms. Optics Express, 2021, 29, 25462.	3.4	21
11	High-Power 1.48- μm Wafer-Fused Optically Pumped Semiconductor Disk Laser. IEEE Photonics Technology Letters, 2011, 23, 917-919.	2.5	20
12	Narrow linewidth 1118/559 nm VECSEL based on strain compensated GaInAs/GaAs quantum-wells for laser cooling of Mg-ions. Optical Materials Express, 2012, 2, 1011.	3.0	20
13	Dual-wavelength generation by vertical external cavity surface-emitting laser. Optics Express, 2007, 15, 13451.	3.4	18
14	Optically Pumped Semiconductor Lasers for Precision Spectroscopic Applications. IEEE Journal of Quantum Electronics, 2013, 49, 719-727.	1.9	18
15	Narrow-Linewidth 780-nm DFB Lasers Fabricated Using Nanoimprint Lithography. IEEE Photonics Technology Letters, 2018, 30, 51-54.	2.5	16
16	AlGaAs-based vertical-external-cavity surface-emitting laser exceeding 4 W of direct emission power in the 740-790 nm spectral range. Optics Letters, 2018, 43, 1578.	3.3	14
17	Strain compensated 1120nm GaInAs/GaAs vertical external-cavity surface-emitting laser grown by molecular beam epitaxy. Journal of Crystal Growth, 2011, 335, 4-9.	1.5	13
18	750 nm 15 W frequency-doubled semiconductor disk laser with a 44 nm tuning range. Optics Letters, 2015, 40, 4380.	3.3	12

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19	72-W vertical-external-cavity surface-emitting laser with 1180-nm emission for laser guide star adaptive optics. Electronics Letters, 2018, 54, 1135-1137.	1.0	12
20	AlGaAs/AlGaInP VECSELS With Direct Emission at 740-770 nm. IEEE Photonics Technology Letters, 2019, 31, 1245-1248.	2.5	10
21	Thin-film InAs/GaAs quantum dot solar cell with planar and pyramidal back reflectors. Applied Optics, 2020, 59, 6304.	1.8	10
22	GaAs surface passivation for InAs/GaAs quantum dot based nanophotonic devices. Nanotechnology, 2021, 32, 130001.	2.6	7
23	InGaN-diode-pumped AlGaInP VECSEL with sub-kHz linewidth at 689 nm. Optics Express, 2021, 29, 3258.	3.4	7
24	1180nm VECSEL with 50 W output power. Proceedings of SPIE, 2015, , .	0.8	6
25	High power (23W) vertical external cavity surface emitting laser emitting at 1180 nm. Proceedings of SPIE, 2013, , .	0.8	5
26	Laterally-corrugated ridge-waveguide distributed feedback lasers at 980nm. Optical and Quantum Electronics, 2009, 41, 11-16.	3.3	4
27	Distributed feedback lasers with alternating laterally coupled ridge-waveguide surface gratings. Optics Letters, 2017, 42, 3141.	3.3	3
28	Thermal Behavior and Power Scaling Potential of Membrane External-Cavity Surface-Emitting Lasers (MECSELS). IEEE Journal of Quantum Electronics, 2022, 58, 1-11.	1.9	3
29	A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm. , 2016, , .		2
30	Pulsed high-power yellow-orange VECSEL. , 2014, , .		1
31	High-efficiency tunable yellow-orange VECSEL with an output power of 20 W. , 2014, , .		1
32	MECSELS with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation. , 2019, , .		1
33	Design and characterization of MECSELS for widely tunable (>25 THz) continuous wave operation. , 2022, , .		1
34	Narrow linewidth 1120 nm GaInAs/GaAs VECSEL for cooling Mg ⁺ ions. Proceedings of SPIE, 2012, , .	0.8	0
35	Strain compensation of InGaAs/GaAs SDL gain mirrors grown by molecular beam epitaxy. , 2012, , .		0
36	High Power 1100–1200 nm Semiconductor Disk Lasers. , 2013, , .		0

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37	Double-Side Pumped Membrane External-Cavity Surface-Emitting Lasers (MECSELS): Towards a "Solid-State Laser"-Like Gain Pump Configuration. , 2019, , .		0
38	Room temperature operation of SiC-cooled and AlGaInP-based, red-emitting membrane external-cavity surface-emitting lasers (MECSELS). , 2021, , .		0
39	Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region. , 2019, , .		0
40	Observation of local electroluminescent cooling and identifying the remaining challenges. , 2019, , .		0
41	Thermal management analysis of a membrane external-cavity surface-emitting laser (MECSEL). , 2021, , .		0
42	Resonant and off-resonant designs of membrane external-cavity surface-emitting lasers emitting at 800 nm. , 2021, , .		0
43	Thermal behavior and management of membrane external-cavity surface-emitting lasers (MECSELS). , 2022, , .		0