

Alexander R Albrecht

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.

37
papers

510
citations

13
h-index

22
g-index

66
ext. papers

724
ext. citations

3.5
avg, IF

3.76
L-index

#	Paper	IF	Citations
37	Solid-state optical refrigeration to sub-100 Kelvin regime. <i>Scientific Reports</i> , 2016 , 6, 20380	4.9	85
36	Optically Pumped Frequency Reconfigurable Antenna Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 280-283	3.8	82
35	First demonstration of an all-solid-state optical cryocooler. <i>Light: Science and Applications</i> , 2018 , 7, 15	16.7	37
34	Exploring ultrafast negative Kerr effect for mode-locking vertical external-cavity surface-emitting lasers. <i>Optics Express</i> , 2013 , 21, 28801-8	3.3	30
33	Radiation-balanced Yb:YAG disk laser. <i>Optics Express</i> , 2019 , 27, 1392-1400	3.3	30
32	Optically pumped DBR-free semiconductor disk lasers. <i>Optics Express</i> , 2015 , 23, 33164-9	3.3	26
31	Room-Temperature Operation of Buffer-Free GaSb/AlGaSb Quantum-Well Diode Lasers Grown on a GaAs Platform Emitting at 1.65 μm . <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1628-1630	2.2	23
30	16 W DBR-free membrane semiconductor disk laser with dual-SiC heatspreader. <i>Electronics Letters</i> , 2018 , 54, 430-432	1.1	20
29	Multi-watt 1.25 [micro sign]m quantum dot VECSEL. <i>Electronics Letters</i> , 2010 , 46, 856	1.1	16
28	Improved photoluminescence efficiency of patterned quantum dots incorporating a dots-in-the-well structure. <i>Nanotechnology</i> , 2008 , 19, 435710	3.4	16
27	Optical properties of patterned InAs quantum dot ensembles grown on GaAs nanopramids. <i>Applied Physics Letters</i> , 2007 , 91, 243106	3.4	16
26	Optical refrigeration: the role of parasitic absorption at cryogenic temperatures. <i>Optics Express</i> , 2019 , 27, 29710-29718	3.3	14
25	Astigmatic Herriott cell for optical refrigeration. <i>Optical Engineering</i> , 2016 , 56, 011110	1.1	14
24	Intra-cavity cryogenic optical refrigeration using high power vertical external-cavity surface-emitting lasers (VECSELs). <i>Optics Express</i> , 2014 , 22, 16232-40	3.3	13
23	Observation of optical refrigeration in a holmium-doped crystal. <i>Photonics Research</i> , 2019 , 7, 445	6	13
22	80 nm tunable DBR-free semiconductor disk laser. <i>Applied Physics Letters</i> , 2016 , 109, 022101	3.4	12
21	Tm-doped crystals for mid-IR optical cryocoolers and radiation balanced lasers. <i>Optics Letters</i> , 2019 , 44, 1419-1422	3	10

20	1220-1280-nm Optically Pumped InAs Quantum Dot-Based Vertical External-Cavity Surface-Emitting Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1787-1793	3.8	8
19	High power 1.25 μm InAs quantum dot vertical external-cavity surface-emitting laser. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 03C113	1.3	7
18	Implementation of Laser-Induced Anti-Stokes Fluorescence Power Cooling of Ytterbium-Doped Silica Glass. <i>ACS Omega</i> , 2021 , 6, 8376-8381	3.9	7
17	DBR-free optically pumped semiconductor disk lasers 2015 ,		4
16	High-power 1.25 μm InAs QD VECSEL based on resonant periodic gain structure 2011 ,		3
15	Open-aperture Z-scan study for absorption saturation: accurate measurement of saturation intensity in YLF:Yb for optical refrigeration. <i>Optics Letters</i> , 2021 , 46, 1421-1424	3	3
14	Bridgman Growth of Laser-Cooling-Grade LiLuF ₄ :Yb ³⁺ Single Crystals. <i>Crystal Growth and Design</i> , 2021 , 21, 2142-2153	3.5	3
13	Progress towards cryogenic temperatures in intra-cavity optical refrigeration using a VECSEL 2013 ,		2
12	Intracavity laser cooling using a VECSEL 2012 ,		2
11	Bridgman growth of LiYF ₄ and LiLuF ₄ crystals for radiation-balanced lasers 2019 ,		2
10	Development of vertical external cavity surface emitting lasers (VECSELs) for use as monochromatic and polychromatic sodium guidestars 2016 ,		2
9	Intracavity-enhanced optical refrigeration of Yb:YLF crystal to cryogenic temperatures 2015 ,		1
8	Laser cooling in solids: Demonstration of 115K all-solid-state cryocooler 2013 ,		1
7	Investigation of radiation-balanced disk lasers 2018 ,		1
6	Understanding the origin of parasitic absorption in GaAs double heterostructures 2018 ,		1
5	Probing the ultrafast gain and refractive index dynamics of a VECSEL. <i>Applied Physics Letters</i> , 2021 , 119, 191105	3.4	1
4	Broadly tunable DBR-free semiconductor disk laser 2016 ,		1
3	In-Well Pumping of a Membrane External-Cavity Surface-Emitting Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 1-1	3.8	1

2 DBR-free Optically Pumped Semiconductor Disk Lasers **2021**, 175-196

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1 Near-Unity External Quantum Efficiency in GaAs/AlGaAs Heterostructures Grown by Molecular Beam Epitaxy. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2100106

2.5