

# Alexander R Albrecht

## 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.

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	Probing the ultrafast gain and refractive index dynamics of a VECSEL. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 191105	3.4	1
36	Open-aperture Z-scan study for absorption saturation: accurate measurement of saturation intensity in YLF:Yb for optical refrigeration. <i>Optics Letters</i> , <b>2021</b> , 46, 1421-1424	3	3
35	Implementation of Laser-Induced Anti-Stokes Fluorescence Power Cooling of Ytterbium-Doped Silica Glass. <i>ACS Omega</i> , <b>2021</b> , 6, 8376-8381	3.9	7
34	Near-Unity External Quantum Efficiency in GaAs/AlGaAs Heterostructures Grown by Molecular Beam Epitaxy. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2100106	2.5	
33	In-Well Pumping of a Membrane External-Cavity Surface-Emitting Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 1-1	3.8	1
32	Bridgman Growth of Laser-Cooling-Grade LiLuF <sub>4</sub> :Yb <sup>3+</sup> Single Crystals. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 2142-2153	3.5	3
31	DBR -free Optically Pumped Semiconductor Disk Lasers <b>2021</b> , 175-196		1
30	Bridgman growth of LiYF <sub>4</sub> and LiLuF <sub>4</sub> crystals for radiation-balanced lasers <b>2019</b> ,		2
29	Radiation-balanced Yb:YAG disk laser. <i>Optics Express</i> , <b>2019</b> , 27, 1392-1400	3.3	30
28	Optical refrigeration: the role of parasitic absorption at cryogenic temperatures. <i>Optics Express</i> , <b>2019</b> , 27, 29710-29718	3.3	14
27	Tm-doped crystals for mid-IR optical cryocoolers and radiation balanced lasers. <i>Optics Letters</i> , <b>2019</b> , 44, 1419-1422	3	10
26	Observation of optical refrigeration in a holmium-doped crystal. <i>Photonics Research</i> , <b>2019</b> , 7, 445	6	13
25	Investigation of radiation-balanced disk lasers <b>2018</b> ,		1
24	Understanding the origin of parasitic absorption in GaAs double heterostructures <b>2018</b> ,		1
23	16 W DBR-free membrane semiconductor disk laser with dual-SiC heatspreader. <i>Electronics Letters</i> , <b>2018</b> , 54, 430-432	1.1	20
22	First demonstration of an all-solid-state optical cryocooler. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 15	16.7	37
21	Solid-state optical refrigeration to sub-100 Kelvin regime. <i>Scientific Reports</i> , <b>2016</b> , 6, 20380	4.9	85

20	80 nm tunable DBR-free semiconductor disk laser. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 022101	3.4	12
19	Astigmatic Herriott cell for optical refrigeration. <i>Optical Engineering</i> , <b>2016</b> , 56, 011110	1.1	14
18	Broadly tunable DBR-free semiconductor disk laser <b>2016</b> ,		1
17	Development of vertical external cavity surface emitting lasers (VECSELS) for use as monochromatic and polychromatic sodium guidestars <b>2016</b> ,		2
16	DBR-free optically pumped semiconductor disk lasers <b>2015</b> ,		4
15	Intracavity-enhanced optical refrigeration of Yb:YLF crystal to cryogenic temperatures <b>2015</b> ,		1
14	Optically pumped DBR-free semiconductor disk lasers. <i>Optics Express</i> , <b>2015</b> , 23, 33164-9	3.3	26
13	Intra-cavity cryogenic optical refrigeration using high power vertical external-cavity surface-emitting lasers (VECSELS). <i>Optics Express</i> , <b>2014</b> , 22, 16232-40	3.3	13
12	Laser cooling in solids: Demonstration of 115K all-solid-state cryocooler <b>2013</b> ,		1
11	Exploring ultrafast negative Kerr effect for mode-locking vertical external-cavity surface-emitting lasers. <i>Optics Express</i> , <b>2013</b> , 21, 28801-8	3.3	30
10	Progress towards cryogenic temperatures in intra-cavity optical refrigeration using a VECSEL <b>2013</b> ,		2
9	Intracavity laser cooling using a VECSEL <b>2012</b> ,		2
8	High-power 1.25 $\mu\text{m}$ InAs QD VECSEL based on resonant periodic gain structure <b>2011</b> ,		3
7	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> , <b>2011</b> , 17, 1787-1793	3.8	8
6	High power 1.25 $\mu\text{m}$ InAs quantum dot vertical external-cavity surface-emitting laser. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 03C113	1.3	7
5	Multi-watt 1.25 $\mu\text{m}$ quantum dot VECSEL. <i>Electronics Letters</i> , <b>2010</b> , 46, 856	1.1	16
4	Optically Pumped Frequency Reconfigurable Antenna Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2010</b> , 9, 280-283	3.8	82
3	Improved photoluminescence efficiency of patterned quantum dots incorporating a dots-in-the-well structure. <i>Nanotechnology</i> , <b>2008</b> , 19, 435710	3.4	16

2	Room-Temperature Operation of Buffer-Free GaSb/AlGaSb Quantum-Well Diode Lasers Grown on a GaAs Platform Emitting at 1.65 $\mu\text{m}$ . <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1628-1630	2.2	23
1	Optical properties of patterned InAs quantum dot ensembles grown on GaAs nanopillars. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 243106	3.4	16