Jennifer Selvidge

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1849692/publications.pdf

Version: 2024-02-01

21 papers	1,391 citations	623574 14 h-index	887953 17 g-index
21 all docs	21 docs citations	21 times ranked	1698 citing authors

#	Article	IF	Citations
1	Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo. Nature Biotechnology, 2015, 33, 277-284.	9.4	532
2	Laser soliton microcombs heterogeneously integrated on silicon. Science, 2021, 373, 99-103.	6.0	173
3	Narrow-linewidth III-V/Si/Si₃N₄ laser using multilayer heterogeneous integration. Optica, 2020, 7, 20.	4.8	105
4	Electrically pumped continuous wave quantum dot lasers epitaxially grown on patterned, on-axis (001) Si. Optics Express, 2017, 25, 3927.	1.7	103
5	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. Optica, 2021, 8, 749.	4.8	76
6	Polymer Fiber Probes Enable Optical Control of Spinal Cord and Muscle Function In Vivo. Advanced Functional Materials, 2014, 24, 6594-6600.	7.8	74
7	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. ACS Photonics, 2021, 8, 2555-2566.	3.2	67
8	High Speed Evanescent Quantumâ€Dot Lasers on Si. Laser and Photonics Reviews, 2021, 15, 2100057.	4.4	57
9	A Pathway to Thin GaAs Virtual Substrate on Onâ€Axis Si (001) with Ultralow Threading Dislocation Density. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000402.	0.8	48
10	Defect filtering for thermal expansion induced dislocations in IIIâ€“V lasers on silicon. Applied Physics Letters, 2020, 117, .	1.5	38
11	Recent Advances in InAs Quantum Dot Lasers Grown on Onâ€Axis (001) Silicon by Molecular Beam Epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800602.	0.8	34
12	Non-radiative recombination at dislocations in InAs quantum dots grown on silicon. Applied Physics Letters, 2019, 115, .	1.5	27
13	Recombination-enhanced dislocation climb in InAs quantum dot lasers on silicon. Journal of Applied Physics, 2020, 128, .	1.1	21
14	Reduced dislocation growth leads to long lifetime InAs quantum dot lasers on silicon at high temperatures. Applied Physics Letters, 2021, 118, .	1.5	20
15	Kinetically limited misfit dislocations formed during post-growth cooling in IIIâ€“V lasers on silicon. Journal Physics D: Applied Physics, 2021, 54, 494001.	1.3	7
16	Reliability of lasers on silicon substrates for silicon photonics. , 2021, , 239-271.		6
17	Flexible Fibers: Polymer Fiber Probes Enable Optical Control of Spinal Cord and Muscle Function In Vivo (Adv. Funct. Mater. 42/2014). Advanced Functional Materials, 2014, 24, 6732-6732.	7.8	2
18	Quantum Dot Lasers: High Speed Evanescent Quantumâ€Dot Lasers on Si (Laser Photonics Rev. 15(8)/2021). Laser and Photonics Reviews, 2021, 15, 2170042.	4.4	1

#	Article	IF	Citations
19	High temperature reliable epitaxially grown quantum dot lasers on (001) Si with record performance. , 2021, , .		0
20	Advances in heteroepitaxial integration of III-V and IV-VI semiconductors with electron channeling contrast imaging. Microscopy and Microanalysis, 2021, 27, 908-910.	0.2	0
21	Degradation Behaviors in InAs Quantum Dot Lasers on Silicon using Misfit Dislocation Trapping Layers. , 2021, , .		0