

Jennifer Selvidge

List of Publications by Year in descending order

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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	A Pathway to Thin GaAs Virtual Substrate on On-axis Si (001) with Ultralow Threading Dislocation Density. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000402.	0.8	48
2	High temperature reliable epitaxially grown quantum dot lasers on (001) Si with record performance. , 2021, , .		0
3	Reliability of lasers on silicon substrates for silicon photonics. , 2021, , 239-271.		6
4	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. <i>Optica</i> , 2021, 8, 749.	4.8	76
5	Reduced dislocation growth leads to long lifetime InAs quantum dot lasers on silicon at high temperatures. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	20
6	High Speed Evanescent Quantum-dot Lasers on Si. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100057.	4.4	57
7	Laser soliton microcombs heterogeneously integrated on silicon. <i>Science</i> , 2021, 373, 99-103.	6.0	173
8	Advances in heteroepitaxial integration of III-V and IV-VI semiconductors with electron channeling contrast imaging. <i>Microscopy and Microanalysis</i> , 2021, 27, 908-910.	0.2	0
9	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. <i>ACS Photonics</i> , 2021, 8, 2555-2566.	3.2	67
10	Quantum Dot Lasers: High Speed Evanescent Quantum-dot Lasers on Si (<i>Laser Photonics Rev.</i> 15(8)/2021). <i>Laser and Photonics Reviews</i> , 2021, 15, 2170042.	4.4	1
11	Kinetically limited misfit dislocations formed during post-growth cooling in III-V lasers on silicon. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 494001.	1.3	7
12	Degradation Behaviors in InAs Quantum Dot Lasers on Silicon using Misfit Dislocation Trapping Layers. , 2021, , .		0
13	Recombination-enhanced dislocation climb in InAs quantum dot lasers on silicon. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	21
14	Defect filtering for thermal expansion induced dislocations in III-V lasers on silicon. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	38
15	Narrow-linewidth III-V/Si/Si ₃ N ₄ laser using multilayer heterogeneous integration. <i>Optica</i> , 2020, 7, 20.	4.8	105
16	Non-radiative recombination at dislocations in InAs quantum dots grown on silicon. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	27
17	Recent Advances in InAs Quantum Dot Lasers Grown on On-axis (001) Silicon by Molecular Beam Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800602.	0.8	34
18	Electrically pumped continuous wave quantum dot lasers epitaxially grown on patterned, on-axis (001) Si. <i>Optics Express</i> , 2017, 25, 3927.	1.7	103

#	ARTICLE	IF	CITATIONS
19	Multifunctional fibers for simultaneous optical, electrical and chemical interrogation of neural circuits in vivo. <i>Nature Biotechnology</i> , 2015, 33, 277-284.	9.4	532
20	Polymer Fiber Probes Enable Optical Control of Spinal Cord and Muscle Function In Vivo. <i>Advanced Functional Materials</i> , 2014, 24, 6594-6600.	7.8	74
21	Flexible Fibers: Polymer Fiber Probes Enable Optical Control of Spinal Cord and Muscle Function In Vivo (<i>Adv. Funct. Mater.</i> 42/2014). <i>Advanced Functional Materials</i> , 2014, 24, 6732-6732.	7.8	2