Chen Shang

List of Publications by Year
in descending order

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23	835	566801 15	713013 21
papers	citations	h-index	g-index

24	24	24	549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monolithic Passiveâ”Active Integration of Epitaxially Grown Quantum Dot Lasers on Silicon. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100522.	0.8	7
2	Crack propagation in low dislocation density quantum dot lasers epitaxially grown on Si. APL Materials, 2022, 10, .	2.2	6
3	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
4	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. Optica, 2021, 8, 749.	4.8	76
5	Reduced dislocation growth leads to long lifetime InAs quantum dot lasers on silicon at high temperatures. Applied Physics Letters, 2021, 118, .	1.5	20
6	Quantum Hall effect of the topological insulator state of cadmium arsenide in Corbino geometry. Applied Physics Letters, 2021, 118, 261901.	1.5	1
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	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
9	1.3 Î¼m High Performance Regrown Distributed Feedback Lasers Epitaxially Grown on Si. , 2021, , .		0
10	A Review of the Reliability of Integrated IR Laser Diodes for Silicon Photonics. Electronics (Switzerland), 2021, 10, 2734.	1.8	6
11	Low Dark Current High Gain InAs Quantum Dot Avalanche Photodiodes Monolithically Grown on Si. ACS Photonics, 2020, 7, 528-533.	3.2	49
12	Defect filtering for thermal expansion induced dislocations in IIIâ€“V lasers on silicon. Applied Physics Letters, 2020, 117, .	1.5	38
13	1.3ÂÂµm Quantum Dotâ€Distributed Feedback Lasers Directly Grown on (001) Si. Laser and Photonics Reviews, 2020, 14, 2000037.	4.4	40
14	Directly Modulated Singleâ€Mode Tunable Quantum Dot Lasers at 1.3ÂÂµm. Laser and Photonics Reviews, 2020, 14, 1900348.	4.4	24
15	Low Dark Current 1.55 Micrometer InAs Quantum Dash Waveguide Photodiodes. ACS Nano, 2020, 14, 3519-3527.	7.3	16
16	Low Threshold Quantum Dot Lasers Directly Grown on Unpatterned Quasi-Nominal (001) Si. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-9.	1.9	29
17	GaAs epitaxy on (001) Si: below 1Ã—106 cm-2 dislocation density with 2.4 pm buffer thickness. , 2020, , .		0
18	Low-Threshold Epitaxially Grown 1.3-Î¼m InAs Quantum Dot Lasers on Patterned (001) Si. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	23

#	Article	IF	Citations
19	A Review of High-Performance Quantum Dot Lasers on Silicon. IEEE Journal of Quantum Electronics, 2019, 55, 1-11.	1.0	107
20	Tunable quantum dot lasers grown directly on silicon. Optica, 2019, 6, 1394.	4.8	49
21	Directly modulated quantum dot lasers on silicon with a milliampere threshold and high temperature stability. Photonics Research, 2018, 6, 776.	3.4	55
22	High efficiency low threshold current 1.3â€‰Î¼m InAs quantum dot lasers on on-axis (001) GaP/Si. Applied Physics Letters, 2017, 111, .	1.5	114
23	O-band electrically injected quantum dot micro-ring lasers on on-axis (001) GaP/Si and V-groove Si. Optics Express, 2017, 25, 26853.	1.7	53