

Yating Wan

List of Publications by Year in descending order

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201385

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57
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57
docs citations

57
times ranked

1031
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Silicon Photonics Using Heterogeneous Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-15.	1.9	52
2	Analysis of the Spontaneous Emission Limited Linewidth of an Integrated III-V/SiN Laser. Laser and Photonics Reviews, 2022, 16, .	4.4	11
3	Quantum Dot Lasers and Amplifiers on Silicon: Recent Advances and Future Developments. IEEE Nanotechnology Magazine, 2021, 15, 8-22.	0.9	19
4	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. Optica, 2021, 8, 749.	4.8	76
5	High Speed Evanescent Quantum-Dot Lasers on Si. Laser and Photonics Reviews, 2021, 15, 2100057.	4.4	57
6	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. ACS Photonics, 2021, 8, 2555-2566.	3.2	67
7	1.3 μm regrown quantum-dot distributed feedback lasers on (001) Si: a pathway to scale towards 1 Tbit/s. , 2021, , .		1
8	1.3 μm High Performance Regrown Distributed Feedback Lasers Epitaxially Grown on Si. , 2021, , .		0
9	Low Dark Current High Gain InAs Quantum Dot Avalanche Photodiodes Monolithically Grown on Si. ACS Photonics, 2020, 7, 528-533.	3.2	49
10	1.3 μm Quantum Dot-Distributed Feedback Lasers Directly Grown on (001) Si. Laser and Photonics Reviews, 2020, 14, 2000037.	4.4	40
11	Directly Modulated Single-Mode Tunable Quantum Dot Lasers at 1.3 μm . Laser and Photonics Reviews, 2020, 14, 1900348.	4.4	24
12	Low Dark Current 1.55 Micrometer InAs Quantum Dash Waveguide Photodiodes. ACS Nano, 2020, 14, 3519-3527.	7.3	16
13	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
14	1.3 μm tunable quantum dot lasers. , 2020, , .		1
15	Quantum Dot Avalanche Photodetector on Si Substrate. , 2020, , .		1
16	Low-Threshold Epitaxially Grown 1.3- μm InAs Quantum Dot Lasers on Patterned (001) Si. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	23
17	Quantum dot microcavity lasers on silicon substrates. Semiconductors and Semimetals, 2019, , 305-354.	0.4	7
18	Defect Characterization of InAs/InGaAs Quantum Dot p-i-n Photodetector Grown on GaAs-on-V-Grooved-Si Substrate. ACS Photonics, 2019, 6, 1100-1105.	3.2	37

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19	A Review of High-Performance Quantum Dot Lasers on Silicon. IEEE Journal of Quantum Electronics, 2019, 55, 1-11.	1.0	107
20	Defect characterization of InAs/InGaAs quantum dot photodetector grown on GaAs-on-V-grooved-Si substrate. , 2019, , .		0
21	Low-Threshold Continuous-Wave Operation of Electrically Pumped 1.55 μm InAs Quantum Dash Microring Lasers. ACS Photonics, 2019, 6, 279-285.	3.2	24
22	Recent Advances in InAs Quantum Dot Lasers Grown on On-Axis (001) Silicon by Molecular Beam Epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800602.	0.8	34
23	Realities and challenges of III-V/Si integration technologies. , 2019, , .		11
24	Tunable quantum dot lasers grown directly on silicon. Optica, 2019, 6, 1394.	4.8	49
25	Low threshold 1.55 μm Quantum dash microring lasers. , 2019, , .		0
26	Triple reduction of threshold current for 1.3 μm InAs quantum dot lasers on patterned, on-axis (001) Si. , 2019, , .		0
27	Highly Reliable Low-Threshold InAs Quantum Dot Lasers on On-Axis (001) Si with 87% Injection Efficiency. ACS Photonics, 2018, 5, 1094-1100.	3.2	120
28	Perspective: The future of quantum dot photonic integrated circuits. APL Photonics, 2018, 3, .	3.0	188
29	On-Chip Detection from Directly Modulated Quantum Dot Microring Lasers on Si. , 2018, , .		2
30	High performance and reliable 1.3 μm InAs quantum dot lasers epitaxially grown on Si. , 2018, , .		1
31	InAs Quantum dot Lasers Epitaxially Grown on On-Axis (001) Silicon. , 2018, , .		0
32	NRZ and PAM-4 Direct Modulation of $1.3 \mu\text{m}$ Quantum Dot Lasers Grown Directly on On-Axis (001) Si. , 2018, , .		1
33	Low-dark current 10 Gbit/s operation of InAs/InGaAs quantum dot p-i-n photodiode grown on on-axis (001) GaP/Si. Applied Physics Letters, 2018, 113, .	1.5	25
34	Directly modulated quantum dot lasers on silicon with a milliamper threshold and high temperature stability. Photonics Research, 2018, 6, 776.	3.4	55
35	Directly modulated 1.3 μm quantum dot lasers epitaxially grown on silicon. Optics Express, 2018, 26, 7022.	1.7	51
36	High performance quantum dot lasers epitaxially integrated on Si. , 2018, , .		3

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37	Quadruple reduction of threshold current density for micro-ring quantum dot lasers epitaxially grown on (001) Si. , 2018, , .		3
38	Quantum Dot Photonic Integrated Circuits on Silicon. , 2018, , .		0
39	Continuous-Wave Optically Pumped 1.55 μm InAs/InAlGaAs Quantum Dot Microdisk Lasers Epitaxially Grown on Silicon. ACS Photonics, 2017, 4, 204-210.	3.2	56
40	1.55 μm room-temperature lasing from subwavelength quantum-dot microdisks directly grown on (001) Si. Applied Physics Letters, 2017, 110, .	1.5	50
41	InAs quantum dot micro-disk lasers grown on (001) Si emitting at communication wavelengths. , 2017, , .		1
42	High efficiency low threshold current 1.3 μm InAs quantum dot lasers on on-axis (001) GaP/Si. Applied Physics Letters, 2017, 111, .	1.5	114
43	Room Temperature 1.55 μm Lasing of Sub-wavelength Quantum-dot Lasers Epitaxially Grown on (001) Silicon. , 2017, , .		0
44	Electrically pumped continuous wave quantum dot lasers epitaxially grown on patterned, on-axis (001) Si. Optics Express, 2017, 25, 3927.	1.7	103
45	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
46	Monolithically integrated InAs/InGaAs quantum dot photodetectors on silicon substrates. Optics Express, 2017, 25, 27715.	1.7	71
47	Parametric study of high-performance 155 μm InAs quantum dot microdisk lasers on Si. Optics Express, 2017, 25, 31281.	1.7	14
48	13 μm submilliwatt threshold quantum dot micro-lasers on Si. Optica, 2017, 4, 940.	4.8	142
49	Quantum dot lasers grown on (001) Si substrate for integration with amorphous Si waveguides. , 2017, , .		2
50	155 μm band low-threshold, continuous-wave lasing from InAs/InAlGaAs quantum dot microdisks. Optics Letters, 2017, 42, 679.	1.7	24
51	13 μm InAs quantum-dot micro-disk lasers on V-groove patterned and unpatterned (001) silicon. Optics Express, 2016, 24, 21038.	1.7	37
52	Optically pumped 13 μm room-temperature InAs quantum-dot micro-disk lasers directly grown on (001) silicon. Optics Letters, 2016, 41, 1664.	1.7	101
53	Temperature characteristics of epitaxially grown InAs quantum dot micro-disk lasers on silicon for on-chip light sources. Applied Physics Letters, 2016, 109, .	1.5	31
54	Sub-wavelength InAs quantum dot micro-disk lasers epitaxially grown on exact Si (001) substrates. Applied Physics Letters, 2016, 108, .	1.5	58

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55	Room Temperature CW 1.3 μ m Single Mode Lasing of InAs Quantum Dot Micro-disk Lasers Grown on (001) Si. , 2016, , .		0
56	InAlGaAs/InAlAs MQWs on Si Substrate. IEEE Photonics Technology Letters, 2015, 27, 748-751.	1.3	13
57	InAs/GaAs quantum dots on GaAs-on-V-grooved-Si substrate with high optical quality in the 1.3 μ m band. Applied Physics Letters, 2015, 107, .	1.5	39