

Yating Wan

List of Publications by Year in descending order

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57
papers

2,093
citations

201575

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315616

38
g-index

57
all docs

57
docs citations

57
times ranked

1031
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspective: The future of quantum dot photonic integrated circuits. APL Photonics, 2018, 3, .	3.0	188
2	13â€‰%â€‰ $\hat{1}$ / <i>4</i> m submilliamp threshold quantum dot micro-lasers on Si. Optica, 2017, 4, 940.	4.8	142
3	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
4	High efficiency low threshold current 1.3â€‰%â€‰ $\hat{1}$ / <i>4</i> </i>m InAs quantum dot lasers on on-axis (001) GaP/Si. Applied Physics Letters, 2017, 111, .	1.5	114
5	A Review of High-Performance Quantum Dot Lasers on Silicon. IEEE Journal of Quantum Electronics, 2019, 55, 1-11.	1.0	107
6	Electrically pumped continuous wave quantum dot lasers epitaxially grown on patterned, on-axis (001) Si. Optics Express, 2017, 25, 3927.	1.7	103
7	Optically pumped 13â€‰%â€‰ $\hat{1}$ / <i>4</i> m room-temperature InAs quantum-dot micro-disk lasers directly grown on (001) silicon. Optics Letters, 2016, 41, 1664.	1.7	101
8	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. Optica, 2021, 8, 749.	4.8	76
9	Monolithically integrated InAs/InGaAs quantum dot photodetectors on silicon substrates. Optics Express, 2017, 25, 27715.	1.7	71
10	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. ACS Photonics, 2021, 8, 2555-2566.	3.2	67
11	Sub-wavelength InAs quantum dot micro-disk lasers epitaxially grown on exact Si (001) substrates. Applied Physics Letters, 2016, 108, .	1.5	58
12	High Speed Evanescent Quantumâ€‰Dot Lasers on Si. Laser and Photonics Reviews, 2021, 15, 2100057.	4.4	57
13	Continuous-Wave Optically Pumped 1.55 $\hat{1}$ / <i>4</i> m InAs/InAlGaAs Quantum Dot Microdisk Lasers Epitaxially Grown on Silicon. ACS Photonics, 2017, 4, 204-210.	3.2	56
14	Directly modulated quantum dot lasers on silicon with a milliamper threshold and high temperature stability. Photonics Research, 2018, 6, 776.	3.4	55
15	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
16	High-Performance Silicon Photonics Using Heterogeneous Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-15.	1.9	52
17	Directly modulated 13 $\hat{1}$ / <i>4</i> m quantum dot lasers epitaxially grown on silicon. Optics Express, 2018, 26, 7022.	1.7	51
18	1.55â€‰%â€‰ $\hat{1}$ / <i>4</i> </i>m room-temperature lasing from subwavelength quantum-dot microdisks directly grown on (001) Si. Applied Physics Letters, 2017, 110, .	1.5	50

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19	Low Dark Current High Gain InAs Quantum Dot Avalanche Photodiodes Monolithically Grown on Si. ACS Photonics, 2020, 7, 528-533.	3.2	49
20	Tunable quantum dot lasers grown directly on silicon. Optica, 2019, 6, 1394.	4.8	49
21	1.3- μm Quantum Dot Distributed Feedback Lasers Directly Grown on (001) Si. Laser and Photonics Reviews, 2020, 14, 2000037.	4.4	40
22	InAs/GaAs quantum dots on GaAs-on-V-grooved-Si substrate with high optical quality in the 1.3- μm band. Applied Physics Letters, 2015, 107, .	1.5	39
23	13- μm InAs quantum-dot micro-disk lasers on V-groove patterned and unpatterned (001) silicon. Optics Express, 2016, 24, 21038.	1.7	37
24	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
25	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
26	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
27	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
28	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
29	155- μm band low-threshold, continuous-wave lasing from InAs/InAlGaAs quantum dot microdisks. Optics Letters, 2017, 42, 679.	1.7	24
30	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
31	Directly Modulated Single-Mode Tunable Quantum Dot Lasers at 1.3- μm . Laser and Photonics Reviews, 2020, 14, 1900348.	4.4	24
32	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
33	Quantum Dot Lasers and Amplifiers on Silicon: Recent Advances and Future Developments. IEEE Nanotechnology Magazine, 2021, 15, 8-22.	0.9	19
34	Low Dark Current 1.55 Micrometer InAs Quantum Dash Waveguide Photodiodes. ACS Nano, 2020, 14, 3519-3527.	7.3	16
35	Parametric study of high-performance 155 μm InAs quantum dot microdisk lasers on Si. Optics Express, 2017, 25, 31281.	1.7	14
36	InAlGaAs/InAlAs MQWs on Si Substrate. IEEE Photonics Technology Letters, 2015, 27, 748-751.	1.3	13

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37	Realities and challenges of III-V/Si integration technologies. , 2019, , .		11
38	Analysis of the Spontaneous Emission Limited Linewidth of an Integrated III-V/SiN Laser. Laser and Photonics Reviews, 2022, 16, .	4.4	11
39	Quantum dot microcavity lasers on silicon substrates. Semiconductors and Semimetals, 2019, , 305-354.	0.4	7
40	High performance quantum dot lasers epitaxially integrated on Si. , 2018, , .		3
41	Quadruple reduction of threshold current density for micro-ring quantum dot lasers epitaxially grown on (001) Si. , 2018, , .		3
42	Quantum dot lasers grown on (001) Si substrate for integration with amorphous Si waveguides. , 2017, , .		2
43	On-Chip Detection from Directly Modulated Quantum Dot Microring Lasers on Si. , 2018, , .		2
44	InAs quantum dot micro-disk lasers grown on (001) Si emitting at communication wavelengths. , 2017, , .		1
45	High performance and reliable 1.3 μm InAs quantum dot lasers epitaxially grown on Si. , 2018, , .		1
46	NRZ and PAM-4 Direct Modulation of $1.3 \mu\text{m}$ Quantum Dot Lasers Grown Directly on On-Axis (001) Si. , 2018, , .		1
47	1.3 μm regrown quantum-dot distributed feedback lasers on (001) Si: a pathway to scale towards 1 Tbit/s. , 2021, , .		1
48	1.3 μm tunable quantum dot lasers. , 2020, , .		1
49	Quantum Dot Avalanche Photodetector on Si Substrate. , 2020, , .		1
50	Room Temperature 1.55 μm Lasing of Sub-wavelength Quantum-dot Lasers Epitaxially Grown on (001) Silicon. , 2017, , .		0
51	InAs Quantum dot Lasers Epitaxially Grown on On-Axis (001) Silicon. , 2018, , .		0
52	Defect characterization of InAs/InGaAs quantum dot photodetector grown on GaAs-on-V-grooved-Si substrate. , 2019, , .		0
53	Room Temperature CW 1.3 μm Single Mode Lasing of InAs Quantum Dot Micro-disk Lasers Grown on (001) Si. , 2016, , .		0
54	Quantum Dot Photonic Integrated Circuits on Silicon. , 2018, , .		0

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55	Low threshold 1.55 μm Quantum dash microring lasers. , 2019, , .		0
56	Triple reduction of threshold current for 1.3 μm InAs quantum dot lasers on patterned, on-axis (001) Si. , 2019, , .		0
57	1.3 μm High Performance Regrown Distributed Feedback Lasers Epitaxially Grown on Si. , 2021, , .		0