

# Chong Zhang

## List of Publications by Citations

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47  
papers

1,427  
citations

18  
h-index

37  
g-index

54  
ext. papers

1,759  
ext. citations

4.8  
avg, IF

4.55  
L-index

#	Paper	IF	Citations
47	High performance continuous wave 1.3 $\mu\text{m}$ quantum dot lasers on silicon. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 041104	3.4	229
46	Heterogeneous Silicon Photonic Integrated Circuits. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 20-35	4	166
45	13 $\mu\text{m}$ submilliamp threshold quantum dot micro-lasers on Si. <i>Optica</i> , <b>2017</b> , 4, 940	8.6	108
44	4 Gbps direct modulation of 450 nm GaN laser for high-speed visible light communication. <i>Optics Express</i> , <b>2015</b> , 23, 16232-7	3.3	97
43	8 TB $\times$ 40 Gbps fully integrated silicon photonic network on chip. <i>Optica</i> , <b>2016</b> , 3, 785	8.6	85
42	Low threshold and high speed short cavity distributed feedback hybrid silicon lasers. <i>Optics Express</i> , <b>2014</b> , 22, 10202-9	3.3	77
41	Monolithically integrated InAs/InGaAs quantum dot photodetectors on silicon substrates. <i>Optics Express</i> , <b>2017</b> , 25, 27715-27723	3.3	56
40	. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 1429-1437	4	55
39	Electrically Driven and Thermally Tunable Integrated Optical Isolators for Silicon Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 271-278	3.8	51
38	Dynamically reconfigurable integrated optical circulators. <i>Optica</i> , <b>2017</b> , 4, 23	8.6	47
37	III/V-on-Si MQW lasers by using a novel photonic integration method of regrowth on a bonding template. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 93	16.7	36
36	Ultralinear heterogeneously integrated ring-assisted Mach-Zehnder interferometer modulator on silicon. <i>Optica</i> , <b>2016</b> , 3, 1483	8.6	34
35	Indium arsenide quantum dot waveguide photodiodes heterogeneously integrated on silicon. <i>Optica</i> , <b>2019</b> , 6, 1277	8.6	27
34	Dynamic characteristics of 410 nm semipolar (202 $\times$ 1 $\times$ ) III-nitride laser diodes with a modulation bandwidth of over 5 GHz. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 101104	3.4	26
33	Highly linear heterogeneous-integrated Mach-Zehnder interferometer modulators on Si. <i>Optics Express</i> , <b>2016</b> , 24, 19040-7	3.3	26
32	Heterogeneously Integrated Distributed Feedback Quantum Cascade Lasers on Silicon. <i>Photonics</i> , <b>2016</b> , 3, 35	2.2	23
31	Simple Epitaxial Lateral Overgrowth Process as a Strategy for Photonic Integration on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2014</b> , 20, 380-386	3.8	22

30	Self-Calibrated Microwave Characterization of High-Speed Optoelectronic Devices by Heterodyne Spectrum Mapping. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 1952-1961	4	19
29	Thermal Management of Hybrid Silicon Ring Lasers for High Temperature Operation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2015</b> , 21, 385-391	3.8	18
28	MBE growth of P-doped 1.3 $\mu\text{m}$ InAs quantum dot lasers on silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 02C108	1.3	17
27	MOCVD Regrowth of InP on Hybrid Silicon Substrate. <i>ECS Solid State Letters</i> , <b>2013</b> , 2, Q82-Q86		17
26	Heterogeneous silicon nitride photonics. <i>Optica</i> , <b>2020</b> , 7, 336	8.6	17
25	Hybrid quantum-dot microring laser on silicon. <i>Optica</i> , <b>2019</b> , 6, 1145	8.6	17
24	Compact Modeling for Silicon Photonic Heterogeneously Integrated Circuits. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 2973-2980	4	15
23	Calibration-free measurement of high-speed Mach-Zehnder modulator based on low-frequency detection. <i>Optics Letters</i> , <b>2016</b> , 41, 460-3	3	14
22	Heterogeneous silicon light sources for datacom applications. <i>Optical Fiber Technology</i> , <b>2018</b> , 44, 43-52	2.4	13
21	Improvements in epitaxial lateral overgrowth of InP by MOVPE. <i>Journal of Crystal Growth</i> , <b>2014</b> , 402, 234-242	1.6	13
20	Silicon photonic terabit/s network-on-chip for datacenter interconnection. <i>Optical Fiber Technology</i> , <b>2018</b> , 44, 2-12	2.4	12
19	Recent advances in silicon photonic integrated circuits <b>2016</b> ,		12
18	Fully-Integrated Heterogeneous DML Transmitters for High-Performance Computing. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3322-3337	4	11
17	On-wafer probing-kit for RF characterization of silicon photonic integrated transceivers. <i>Optics Express</i> , <b>2017</b> , 25, 13340-13350	3.3	10
16	Variation-aware adaptive tuning for nanophotonic interconnects <b>2015</b> ,		10
15	Coalescence of InP Epitaxial Lateral Overgrowth by MOVPE with V/III Ratio Variation. <i>Journal of Electronic Materials</i> , <b>2012</b> , 41, 845-852	1.9	9
14	Electrical Probing Test for Characterizing Wideband Optical Transceiving Devices with Self-Reference and On-Chip Capability. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 4326-4336	4	5
13	A broadband optical switch based on adiabatic couplers <b>2016</b> ,		5

12	DLPS: Dynamic laser power scaling for optical Network-on-Chip <b>2017</b> ,		4
11	High-performance quantum-dot distributed feedback laser on silicon for high-speed modulations. <i>Optica</i> , <b>2021</b> , 8, 591	8.6	4
10	2.6 GHz high-speed visible light communication of 450 nm GaN laser diode by direct modulation <b>2015</b> ,		3
9	Heterogeneous silicon nitride photonics: erratum. <i>Optica</i> , <b>2020</b> , 7, 425	8.6	3
8	High-speed 1310 nm Hybrid Silicon Quantum Dot Photodiodes with Ultra-low Dark Current <b>2018</b> ,		3
7	High-Power, High-Linearity, Heterogeneously Integrated III $\text{V}$ on Si MZI Modulators for RF Photonics Systems. <i>IEEE Photonics Journal</i> , <b>2019</b> , 1-1	1.8	2
6	2.6 GHz high-speed visible light communication of 450 nm GaN laser diode by direct modulation <b>2015</b> ,		2
5	High-speed hybrid silicon microring lasers <b>2015</b> ,		2
4	2.56 Tbps (8 B 40 Gbps) Fully-Integrated Silicon Photonic Interconnection Circuit <b>2016</b> ,		2
3	High-speed performance of III-nitride 410 nm ridge laser diode on (202 1 ) plane for visible light communication <b>2016</b> ,		1
2	Integrated photonics for MWP <b>2016</b> ,		1
1	High speed performance of III-nitride laser diode grown on (2021) semipolar plane for visible light communication <b>2016</b> ,		1