Chong Zhang

List of Publications by Year in Descending Order

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 quantum-dot distributed feedback laser on silicon for high-speed modulations. *Optica*, **2021**, 8, 591	8.6	4
46	Heterogeneous silicon nitride photonics. *Optica*, **2020**, 7, 336	8.6	17
45	Heterogeneous silicon nitride photonics: erratum. *Optica*, **2020**, 7, 425	8.6	3
44	Fully-Integrated Heterogeneous DML Transmitters for High-Performance Computing. *Journal of Lightwave Technology*, **2020**, 38, 3322-3337	4	11
43	High-Power, High-Linearity, Heterogeneously Integrated III□V on Si MZI Modulators for RF Photonics Systems. *IEEE Photonics Journal*, **2019**, 1-1	1.8	2
42	III/V-on-Si MQW lasers by using a novel photonic integration method of regrowth on a bonding template. *Light: Science and Applications*, **2019**, 8, 93	16.7	36
41	Hybrid quantum-dot microring laser on silicon. *Optica*, **2019**, 6, 1145	8.6	17
40	Indium arsenide quantum dot waveguide photodiodes heterogeneously integrated on silicon. *Optica*, **2019**, 6, 1277	8.6	27
39	Electrical Probing Test for Characterizing Wideband Optical Transceiving Devices with Self-Reference and On-Chip Capability. *Journal of Lightwave Technology*, **2018**, 36, 4326-4336	4	5
38	Heterogeneous silicon light sources for datacom applications. *Optical Fiber Technology*, **2018**, 44, 43-52	2.4	13
37	Silicon photonic terabit/s network-on-chip for datacenter interconnection. *Optical Fiber Technology*, **2018**, 44, 2-12	2.4	12
36	High-speed 1310 nm Hybrid Silicon Quantum Dot Photodiodes with Ultra-low Dark Current **2018**,		3
35	. *Journal of Lightwave Technology*, **2017**, 35, 1429-1437	4	55
34	DLPS: Dynamic laser power scaling for optical Network-on-Chip **2017**,		4
33	Self-Calibrated Microwave Characterization of High-Speed Optoelectronic Devices by Heterodyne Spectrum Mapping. *Journal of Lightwave Technology*, **2017**, 35, 1952-1961	4	19
32	On-wafer probing-kit for RF characterization of silicon photonic integrated transceivers. *Optics Express*, **2017**, 25, 13340-13350	3.3	10
31	Monolithically integrated InAs/InGaAs quantum dot photodetectors on silicon substrates. *Optics Express*, **2017**, 25, 27715-27723	3.3	56

30	Dynamically reconfigurable integrated optical circulators. *Optica*, **2017**, 4, 23	8.6	47
29	13 fJ/b submilliamp threshold quantum dot micro-lasers on Si. *Optica*, **2017**, 4, 940	8.6	108
28	Compact Modeling for Silicon Photonic Heterogeneously Integrated Circuits. *Journal of Lightwave Technology*, **2017**, 35, 2973-2980	4	15
27	High-speed performance of III-nitride 410 nm ridge laser diode on (202 1) plane for visible light communication **2016**,		1
26	Electrically Driven and Thermally Tunable Integrated Optical Isolators for Silicon Photonics. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 271-278	3.8	51
25	Recent advances in silicon photonic integrated circuits **2016**,		12
24	Calibration-free measurement of high-speed Mach-Zehnder modulator based on low-frequency detection. *Optics Letters*, **2016**, 41, 460-3	3	14
23	Heterogeneous Silicon Photonic Integrated Circuits. *Journal of Lightwave Technology*, **2016**, 34, 20-35	4	166
22	2.56 Tbps (8 × 8 × 40 Gbps) Fully-Integrated Silicon Photonic Interconnection Circuit **2016**,		2
21	Heterogeneously Integrated Distributed Feedback Quantum Cascade Lasers on Silicon. *Photonics*, **2016**, 3, 35	2.2	23
20	8 × 8 × 40 Gbps fully integrated silicon photonic network on chip. *Optica*, **2016**, 3, 785	8.6	85
19	Ultralinear heterogeneously integrated ring-assisted Mach–Zehnder interferometer modulator on silicon. *Optica*, **2016**, 3, 1483	8.6	34
18	Integrated photonics for MWP **2016**,		1
17	Dynamic characteristics of 410 nm semipolar (2021) III-nitride laser diodes with a modulation bandwidth of over 5 GHz. *Applied Physics Letters*, **2016**, 109, 101104	3.4	26
16	A broadband optical switch based on adiabatic couplers **2016**,		5
15	High speed performance of III-nitride laser diode grown on (2021) semipolar plane for visible light communication **2016**,		1
14	Highly linear heterogeneous-integrated Mach-Zehnder interferometer modulators on Si. *Optics Express*, **2016**, 24, 19040-7	3.3	26
13	4 Gbps direct modulation of 450 nm GaN laser for high-speed visible light communication. *Optics Express*, **2015**, 23, 16232-7	3.3	97

12	2.6 GHz high-speed visible light communication of 450 nm GaN laser diode by direct modulation **2015**,		3
11	2.6 GHz high-speed visible light communication of 450 nm GaN laser diode by direct modulation **2015**,		2
10	High-speed hybrid silicon microring lasers **2015**,		2
9	Variation-aware adaptive tuning for nanophotonic interconnects **2015**,		10
8	Thermal Management of Hybrid Silicon Ring Lasers for High Temperature Operation. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 385-391	3.8	18
7	MBE growth of P-doped 1.3 μm InAs quantum dot lasers on silicon. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2014**, 32, 02C108	1.3	17
6	High performance continuous wave 1.3 μm quantum dot lasers on silicon. *Applied Physics Letters*, **2014**, 104, 041104	3.4	229
5	Low threshold and high speed short cavity distributed feedback hybrid silicon lasers. *Optics Express*, **2014**, 22, 10202-9	3.3	77
4	Simple Epitaxial Lateral Overgrowth Process as a Strategy for Photonic Integration on Silicon. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 380-386	3.8	22
3	Improvements in epitaxial lateral overgrowth of InP by MOVPE. *Journal of Crystal Growth*, **2014**, 402, 234-242	1.6	13
2	MOCVD Regrowth of InP on Hybrid Silicon Substrate. *ECS Solid State Letters*, **2013**, 2, Q82-Q86		17
1	Coalescence of InP Epitaxial Lateral Overgrowth by MOVPE with V/III Ratio Variation. *Journal of Electronic Materials*, **2012**, 41, 845-852	1.9	9