

Di Liang

List of Publications by Year in descending order

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papers

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2633
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#	ARTICLE	IF	CITATIONS
1	High Responsivity Si-Ge Waveguide Avalanche Photodiodes Enhanced by Loop Reflector. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	20
2	High-Performance Silicon Photonics Using Heterogeneous Integration. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-15.	2.9	52
3	Ultra-power-efficient heterogeneous III-V/Si MOSCAP (de-)interleavers for DWDM optical links. Photonics Research, 2022, 10, A22.	7.0	12
4	Avalanche photodiodes on silicon photonics. Journal of Semiconductors, 2022, 43, 021301.	3.7	10
5	OSNR Sensitivity Analysis for Si-Ge Avalanche Photodiodes. IEEE Photonics Technology Letters, 2022, 34, 321-324.	2.5	6
6	An Energy-Efficient and Bandwidth-Scalable DWDM Heterogeneous Silicon Photonics Integration Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-19.	2.9	21
7	An Open Silicon Photonics Ecosystem for Computercom Applications. Topics in Applied Physics, 2021, , 491-506.	0.8	0
8	Recent Progress in Heterogeneous III-V-on-Silicon Photonic Integration. Light Advanced Manufacturing, 2021, 2, 59.	5.1	79
9	High-performance quantum-dot distributed feedback laser on silicon for high-speed modulations. Optica, 2021, 8, 591.	9.3	22
10	32-Gbps heterogeneously integrated quantum dot waveguide avalanche photodiodes on silicon. Optics Letters, 2021, 46, 3821.	3.3	10
11	Loop Reflector Assisted Si-Ge Waveguide Avalanche Photodiodes. , 2021, , .		1
12	High Temperature Performance of Heterogeneous MOSCAP Microring Modulators. , 2021, , .		4
13	High-Speed Si/Ge Avalanche Photodiodes with Enhanced Responsivity. , 2021, , .		1
14	In-situ light measurement in heterogeneous gain media. , 2021, , .		2
15	Large-scale and energy-efficient tensorized optical neural networks on III-V-on-silicon MOSCAP platform. APL Photonics, 2021, 6, .	5.7	28
16	Heterogeneous O-Band InAs/GaAs Quantum-Dot Optical Amplifier on Silicon. , 2021, , .		5
17	Fully-Integrated Heterogeneous DML Transmitters for High-Performance Computing. Journal of Lightwave Technology, 2020, 38, 3322-3337.	4.6	18
18	A Low-Voltage Si-Ge Avalanche Photodiode for High-Speed and Energy Efficient Silicon Photonic Links. Journal of Lightwave Technology, 2020, 38, 3156-3163.	4.6	42

#	ARTICLE	IF	CITATIONS
19	Design Considerations for Energy Efficient DWDM PAM4 Transceivers Employing Avalanche Photodiodes. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000142.	8.7	11
20	64 Gbps PAM4 Si-Ge Waveguide Avalanche Photodiodes With Excellent Temperature Stability. <i>Journal of Lightwave Technology</i> , 2020, 38, 4857-4866.	4.6	15
21	Integrated Green DWDM Photonics For Next-Gen High-Performance Computing. , 2020, , .		15
22	64 Gb/s low-voltage waveguide SiGe avalanche photodiodes with distributed Bragg reflectors. <i>Photonics Research</i> , 2020, 8, 1118.	7.0	25
23	Widely tunable, heterogeneously integrated quantum-dot O-band lasers on silicon. <i>Photonics Research</i> , 2020, 8, 1551.	7.0	34
24	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> , 2019, 8, 93.	16.6	68
25	A Compact Model for Si-Ge Avalanche Photodiodes Over a Wide Range of Multiplication Gain. <i>Journal of Lightwave Technology</i> , 2019, 37, 3229-3235.	4.6	15
26	Hybrid quantum-dot microring laser on silicon. <i>Optica</i> , 2019, 6, 1145.	9.3	27
27	Indium arsenide quantum dot waveguide photodiodes heterogeneously integrated on silicon. <i>Optica</i> , 2019, 6, 1277.	9.3	37
28	Error-Free Operation in a Hybrid-Silicon Quantum Dot Comb Laser. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 71-74.	2.5	34
29	Heterogeneous silicon light sources for datacom applications. <i>Optical Fiber Technology</i> , 2018, 44, 43-52.	2.7	19
30	On-Chip Hybrid Silicon Quantum Dot Comb Laser with 14 Error-Free Channels. , 2018, , .		26
31	Heterogeneous MOS microring resonators. , 2017, , .		10
32	13 μ m submilliwatt threshold quantum dot micro-lasers on Si. <i>Optica</i> , 2017, 4, 940.	9.3	142
33	Robust hybrid quantum dot laser for integrated silicon photonics. <i>Optics Express</i> , 2016, 24, 16167.	3.4	64
34	25 Gbps low-voltage waveguide SiGe avalanche photodiode. <i>Optica</i> , 2016, 3, 793.	9.3	114
35	Integrated Optoelectronic Devices on Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1396, .	0.1	1
36	Hybrid silicon / III-V sources for optical interconnects. , 2012, , .		0

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37	Teardrop Reflector-Assisted Unidirectional Hybrid Silicon Microring Lasers. IEEE Photonics Technology Letters, 2012, 24, 1988-1990.	2.5	36
38	Hybrid Silicon Laser Technology: A Thermal Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1490-1498.	2.9	67
39	Uniformity study of wafer-scale InP-to-silicon hybrid integration. Applied Physics A: Materials Science and Processing, 2011, 103, 213-218.	2.3	34
40	Hybrid Integrated Platforms for Silicon Photonics. Materials, 2010, 3, 1782-1802.	2.9	242
41	High-Temperature Thermoelectric Characterization of III-V Semiconductor Thin Films by Oxide Bonding. Journal of Electronic Materials, 2010, 39, 1125-1132.	2.2	10
42	Recent progress in lasers on silicon. Nature Photonics, 2010, 4, 511-517.	31.4	929
43	Integrated Microwave Photonic Filter on a Hybrid Silicon Platform. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3213-3219.	4.6	61
44	Compact low-threshold hybrid silicon microring resonator lasers. , 2010, , .		5
45	Hybrid silicon evanescent approach to optical interconnects. Applied Physics A: Materials Science and Processing, 2009, 95, 1045-1057.	2.3	24
46	An optically-pumped silicon evanescent microring resonator laser. , 2009, , .		4
47	Electrically-pumped compact hybrid silicon microring lasers for optical interconnects. Optics Express, 2009, 17, 20355.	3.4	165
48	Low-Temperature, Strong SiO ₂ -SiO ₂ Covalent Wafer Bonding for III-V Compound Semiconductors-to-Silicon Photonic Integrated Circuits. Journal of Electronic Materials, 2008, 37, 1552-1559.	2.2	83
49	A Distributed Bragg Reflector Silicon Evanescent Laser. IEEE Photonics Technology Letters, 2008, 20, 1667-1669.	2.5	108
50	100 mm wafer-scale InP-based ($\lambda = 1.6 \mu\text{m}$) epitaxial transfer for hybrid silicon evanescent lasers. , 2008, , .		0
51	Wafer bonded silicon photonics. , 2008, , .		0