Xiaoge Zeng

List of Publications by Year
in descending order

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40	539	567281 15	752698 20
papers	citations	h-index	g-index

40	40	40	501
all docs	docs citations	times ranked	citing authors

#	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	Avalanche photodiodes on silicon photonics. Journal of Semiconductors, 2022, 43, 021301.	3.7	10
3	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
4	Loop Reflector Assisted Si-Ge Waveguide Avalanche Photodiodes. , 2021, , .		1
5	High-Speed Si/Ge Avalanche Photodiodes with Enhanced Responsivity. , 2021, , .		1
6	Energy Efficiency Analysis of Comb Source Carrier-Injection Ring-Based Silicon Photonic Link. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-13.	2.9	18
7	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
8	Design Considerations for Energy Efficient DWDM PAM4 Transceivers Employing Avalanche Photodiodes. Laser and Photonics Reviews, 2020, 14, 2000142.	8.7	11
9	64 Gbps PAM4 Si-Ge Waveguide Avalanche Photodiodes With Excellent Temperature Stability. Journal of Lightwave Technology, 2020, 38, 4857-4866.	4.6	15
10	Integrated Green DWDM Photonics For Next-Gen High-Performance Computing. , 2020, , .		15
11	64â€‰â€‰Gb/s low-voltage waveguide SiGe avalanche photodiodes with distributed Bragg reflectors. Photonics Research, 2020, 8, 1118.	7.0	25
12	Monolithically-Integrated Single-Photon Avalanche Diode in a Zero-Change Standard CMOS Process for Low-Cost and Low-Voltage LiDAR Application. Instruments, 2019, 3, 33.	1.8	3
13	A Compact Model for Si-Ge Avalanche Photodiodes Over a Wide Range of Multiplication Gain. Journal of Lightwave Technology, 2019, 37, 3229-3235.	4.6	15
14	60 GB/S PAM4 low-voltage waveguide Si-Ge avalanche photodiode. , 2019, , .		1
15	Low-voltage Si-Ge Avalanche Photodiodes for Datacom. , 2019, , .		2
16	A Compact Circuit Model for Si-Ge Avalanche Photodiodes over a Wide Range of Gain. , 2019, , .		1
17	Siliconâ€“germanium avalanche photodiodes with direct control of electric field in charge multiplication region. Optica, 2019, 6, 772.	9.3	45
18	A Compact Model for Siâ€”Ge Avalanche Photodiodes. , 2018, , .		3

#	Article	IF	Citations
19	Operation and analysis of low-voltage three-terminal avalanche photodiodes. , 2017, , .		0
20	Low-voltage three-terminal avalanche photodiodes. , 2017, , .		3
21	Ring modulators with enhanced efficiency based on standing-wave operation on a field-matched, interdigitated p-n junction. Optics Express, 2016, 24, 27433.	3.4	2
22	Passive Linewidth Narrowing Through Nondegenerate Optical Parametric Oscillation With Asymmetric Port Couplings. , 2016, , .		1
23	Tailoring of Individual Photon Lifetimes as a Degree of Freedom in Resonant Quantum Photonic Sources. , 2016, , .		5
24	Effects of non-instantaneous nonlinear absorption in hydrogenated amorphous silicon. , 2016, , .		5
25	Quantum-correlated photon pairs generated in a commercial 45â€‰â€‰nm complementary metal-oxide semiconductor microelectronic chip. Optica, 2015, 2, 1065.	9.3	52
26	Wavelength conversion in modulated coupled-resonator systems and their design via an equivalent linear filter representation. Optics Letters, 2015, 40, 107.	3.3	17
27	Photonic Crystal Microcavities in a Microelectronics 45-nm SOI CMOS Technology. IEEE Photonics Technology Letters, 2015, 27, 665-668.	2.5	16
28	Four-wave mixing in silicon coupled-cavity resonators with port-selective, orthogonal supermode excitation. Optics Letters, 2015, 40, 2120.	3.3	30
29	Channel addâ€“drop filter based on dual photonic crystal cavities in pushâ€“pull mode. Optics Letters, 2015, 40, 4206.	3.3	24
30	Ring modulators in standing-wave and partial standing wave operation on a matched interdigitated p-n junction for enhanced efficiency. , 2015, , .		0
31	Low-Power ParametricWavelength Conversion in 45nm Microelectronics CMOS Silicon-On-Insulator Technology. , 2015, , .		0
32	Tunable coupled-mode dispersion compensation and its application to on-chip resonant four-wave mixing. Optics Letters, 2014, 39, 5689.	3.3	54
33	Design of triply-resonant microphotonic parametric oscillators based on Kerr nonlinearity. Optics Express, 2014, 22, 15837.	3.4	23
34	Ultra-low-loss CMOS-compatible waveguide crossing arrays based on multimode Bloch waves and imaginary coupling. Optics Letters, 2014, 39, 335.	3.3	58
35	Thermo-optically tunable linear photonic crystal microcavities in advanced SOI CMOS technology. , 2014, , .		0
36	Efficient Thermally Tunable Linear Photonic Crystal Cavities in a Zero-Change Microelectronics SOI CMOS Process. , 2014, , .		0

#	Article	IF	Citations
37	Four-wave mixing in silicon ``photonic molecule'' resonators with port-selective, orthogonal supermode excitation. , 2014, , .		0
38	Wide-band On-chip Four-Wave Mixing via Coupled Cavity Dispersion Compensation. , 2014, , .		0
39	Synthesis of high-Q linear photonic crystal microcavities based on a real-k band structure solver. , 2013, , .		0
40	Optimum micro-optical parametric oscillators based on third-order nonlinearity. , 2013, , .		0