

Xiaoge Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

539
citations

567281

15
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752698

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all docs

40
docs citations

40
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low-loss CMOS-compatible waveguide crossing arrays based on multimode Bloch waves and imaginary coupling. <i>Optics Letters</i> , 2014, 39, 335.	3.3	58
2	Tunable coupled-mode dispersion compensation and its application to on-chip resonant four-wave mixing. <i>Optics Letters</i> , 2014, 39, 5689.	3.3	54
3	Quantum-correlated photon pairs generated in a commercial 45-nm complementary metal-oxide semiconductor microelectronic chip. <i>Optica</i> , 2015, 2, 1065.	9.3	52
4	Silicon-germanium avalanche photodiodes with direct control of electric field in charge multiplication region. <i>Optica</i> , 2019, 6, 772.	9.3	45
5	A Low-Voltage Si-Ge Avalanche Photodiode for High-Speed and Energy Efficient Silicon Photonic Links. <i>Journal of Lightwave Technology</i> , 2020, 38, 3156-3163.	4.6	42
6	Four-wave mixing in silicon coupled-cavity resonators with port-selective, orthogonal supermode excitation. <i>Optics Letters</i> , 2015, 40, 2120.	3.3	30
7	64-Gb/s low-voltage waveguide SiGe avalanche photodiodes with distributed Bragg reflectors. <i>Photonics Research</i> , 2020, 8, 1118.	7.0	25
8	Channel add-drop filter based on dual photonic crystal cavities in push-pull mode. <i>Optics Letters</i> , 2015, 40, 4206.	3.3	24
9	Design of triply-resonant microphotonic parametric oscillators based on Kerr nonlinearity. <i>Optics Express</i> , 2014, 22, 15837.	3.4	23
10	An Energy-Efficient and Bandwidth-Scalable DWDM Heterogeneous Silicon Photonics Integration Platform. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-19.	2.9	21
11	High Responsivity Si-Ge Waveguide Avalanche Photodiodes Enhanced by Loop Reflector. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-8.	2.9	20
12	Energy Efficiency Analysis of Comb Source Carrier-Injection Ring-Based Silicon Photonic Link. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-13.	2.9	18
13	Wavelength conversion in modulated coupled-resonator systems and their design via an equivalent linear filter representation. <i>Optics Letters</i> , 2015, 40, 107.	3.3	17
14	Photonic Crystal Microcavities in a Microelectronics 45-nm SOI CMOS Technology. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 665-668.	2.5	16
15	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
16	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
17	Integrated Green DWDM Photonics For Next-Gen High-Performance Computing. , 2020, , .		15
18	Design Considerations for Energy Efficient DWDM PAM4 Transceivers Employing Avalanche Photodiodes. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000142.	8.7	11

#	ARTICLE	IF	CITATIONS
19	Avalanche photodiodes on silicon photonics. <i>Journal of Semiconductors</i> , 2022, 43, 021301.	3.7	10
20	Tailoring of Individual Photon Lifetimes as a Degree of Freedom in Resonant Quantum Photonic Sources. , 2016, , .		5
21	Effects of non-instantaneous nonlinear absorption in hydrogenated amorphous silicon. , 2016, , .		5
22	A Compact Model for Si-Ge Avalanche Photodiodes. , 2018, , .		3
23	Monolithically-Integrated Single-Photon Avalanche Diode in a Zero-Change Standard CMOS Process for Low-Cost and Low-Voltage LiDAR Application. <i>Instruments</i> , 2019, 3, 33.	1.8	3
24	Low-voltage three-terminal avalanche photodiodes. , 2017, , .		3
25	Ring modulators with enhanced efficiency based on standing-wave operation on a field-matched, interdigitated p-n junction. <i>Optics Express</i> , 2016, 24, 27433.	3.4	2
26	Low-voltage Si-Ge Avalanche Photodiodes for Datacom. , 2019, , .		2
27	Passive Linewidth Narrowing Through Nondegenerate Optical Parametric Oscillation With Asymmetric Port Couplings. , 2016, , .		1
28	60 GB/S PAM4 low-voltage waveguide Si-Ge avalanche photodiode. , 2019, , .		1
29	A Compact Circuit Model for Si-Ge Avalanche Photodiodes over a Wide Range of Gain. , 2019, , .		1
30	Loop Reflector Assisted Si-Ge Waveguide Avalanche Photodiodes. , 2021, , .		1
31	High-Speed Si/Ge Avalanche Photodiodes with Enhanced Responsivity. , 2021, , .		1
32	Synthesis of high-Q linear photonic crystal microcavities based on a real-k band structure solver. , 2013, , .		0
33	Thermo-optically tunable linear photonic crystal microcavities in advanced SOI CMOS technology. , 2014, , .		0
34	Efficient Thermally Tunable Linear Photonic Crystal Cavities in a Zero-Change Microelectronics SOI CMOS Process. , 2014, , .		0
35	Operation and analysis of low-voltage three-terminal avalanche photodiodes. , 2017, , .		0
36	Optimum micro-optical parametric oscillators based on third-order nonlinearity. , 2013, , .		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	Ring modulators in standing-wave and partial standing wave operation on a matched interdigitated p-n junction for enhanced efficiency. , 2015, , .		0
40	Low-Power Parametric Wavelength Conversion in 45nm Microelectronics CMOS Silicon-On-Insulator Technology. , 2015, , .		0