Wei Cao

List of Publications by Year in descending order

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567281 677142 43 988 15 22 citations h-index g-index papers 44 44 44 1156 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Ge Ion Implanted Photonic Devices and Annealing for Emerging Applications. Micromachines, 2022, 13 , 291 .	2.9	2
2	Group IV mid-infrared photonics for communications and sensing. , 2022, , .		O
3	Mid-infrared silicon-on-insulator waveguides with single-mode propagation over an octave of frequency. Optics Express, 2022, 30, 8560.	3.4	5
4	Nanometallic antenna-assisted amorphous silicon waveguide integrated bolometer for mid-infrared. Optics Letters, 2021, 46, 677.	3.3	17
5	High-speed silicon Michelson interferometer modulator and streamlined IMDD PAM-4 transmission of Mach-Zehnder modulators for the 2 \hat{l} 4m wavelength band. Optics Express, 2021, 29, 14438.	3.4	9
6	A Si Optical Modulator Based on Fano-Like Resonance. IEEE Photonics Technology Letters, 2021, 33, 1209-1212.	2.5	6
7	Thick BaTiO ₃ Epitaxial Films Integrated on Si by RF Sputtering for Electro-Optic Modulators in Si Photonics. ACS Applied Materials & Samp; Interfaces, 2021, 13, 51230-51244.	8.0	20
8	Photodetection at 3.8 Å μ m Using Intrinsic Monolithic Integrated Germanium Photodiodes. , 2021, , .		1
9	CORNERSTONE's Silicon Photonics Rapid Prototyping Platforms: Current Status and Future Outlook. Applied Sciences (Switzerland), 2020, 10, 8201.	2.5	23
10	Electronic–photonic convergence for silicon photonics transmitters beyond 100 Gbps on–off keying. Optica, 2020, 7, 1514.	9.3	47
11	25 Gbit/s silicon based modulators for the 2 Âμm wavelength band. , 2020, , .		1
12	Investigations into group IV photonic waveguides with a wide working optical bandwidth. , 2020, , .		1
13	Silicon Optical Modulators for Data Transmission in Different Wavelength Bands. , 2019, , .		О
14	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
15	Mid-Infrared Nanometallic Antenna Assisted Silicon Waveguide Based Bolometers. ACS Photonics, 2019, 6, 3253-3260.	6.6	27
16	High Speed Silicon Capacitor Modulators for TM Polarisation. , 2019, , .		0
17	Suspended Silicon Integrated Platform for the Long-Wavelength Mid-Infrared Band., 2019, , .		O
18	Midâ€infrared suspended waveguide platform and building blocks. IET Optoelectronics, 2019, 13, 55-61.	3.3	21

#	Article	IF	CITATIONS
19	Experimental quantification of the free-carrier effect in silicon waveguides at extended wavelengths. Optics Express, 2019, 27, 166.	3.4	3
20	Silicon-on-insulator free-carrier injection modulators for the mid-infrared. Optics Letters, 2019, 44, 915.	3.3	26
21	Ge-on-Si modulators operating at mid-infrared wavelengths up to 8  μm. Photonics Research, 2019, 7,	8 <i>2</i> 780	36
22	lon Implantation in Silicon for Trimming the Operating Wavelength of Ring Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-7.	2.9	53
23	Co-Design of Electronics and Photonics Components for Silicon Photonics Transmitters. , 2018, , .		8
24	20-Gb/s Silicon Optical Modulators for the 2 $\hat{l}^1\!\!/\!\!4$ m Wavelength Band. , 2018, , .		1
25	Silicon and Germanium Mid-Infrared Optical Modulators. , 2018, , .		1
26	High-speed silicon modulators for the 2  μm wavelength band. Optica, 2018, 5, 1055.	9.3	119
27	Suspended silicon waveguides for long-wave infrared wavelengths. Optics Letters, 2018, 43, 795.	3.3	79
28	Group IV mid-infrared photonics [Invited]. Optical Materials Express, 2018, 8, 2276.	3.0	34
29	Waveguide integrated graphene mid-infrared photodetector. , 2018, , .		9
30	Advancing silicon photonics by germanium ion implantation into silicon. , 2018, , .		1
31	All silicon approach to modulation and detection at $\hat{l} \text{>} = 2~\hat{A}\mu\text{m.}$, 2018, , .		1
32	Group IV mid-infrared devices and circuits. , 2018, , .		0
33	Towards autonomous testing of photonic integrated circuits. Proceedings of SPIE, 2017, , .	0.8	1
34	lon implantation in silicon to facilitate testing of photonic circuits. , 2017, , .		0
35	Germanium Mid-Infrared Photonic Devices. Journal of Lightwave Technology, 2017, 35, 624-630.	4.6	76
36	Germanium and silicon photonic integrated circuits for the mid-infrared., 2017,,.		0

#	Article	IF	CITATIONS
37	Multipurpose silicon photonics signal processor core. Nature Communications, 2017, 8, 636.	12.8	308
38	Mid-infrared Ge-on-Si electro-absorption modulator. , 2017, , .		2
39	Silicon Photonics Rectangular Universal Interferometer. Laser and Photonics Reviews, 2017, 11, 1700219.	8.7	37
40	Compact programmable RF-photonic filters using integrated waveguide mesh processors. , 2017, , .		1
41	Ion implantation in silicon for photonic device trimming. , 2017, , .		0
42	Silicon RF-Photonics Processor Reconfigurable Core., 2017,,.		0
43	Integrated RF-photonic delay lines using reconfigurable photonic waveguide meshes. , 2017, , .		2