

Wei Cao

List of Publications by Year in descending order

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papers

988
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567281

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44
all docs

44
docs citations

44
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipurpose silicon photonics signal processor core. Nature Communications, 2017, 8, 636.	12.8	308
2	High-speed silicon modulators for the 2- μm wavelength band. Optica, 2018, 5, 1055.	9.3	119
3	Suspended silicon waveguides for long-wave infrared wavelengths. Optics Letters, 2018, 43, 795.	3.3	79
4	Germanium Mid-Infrared Photonic Devices. Journal of Lightwave Technology, 2017, 35, 624-630.	4.6	76
5	Ion 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
6	Electronic-photonics convergence for silicon photonics transmitters beyond 100 Gbps on-off keying. Optica, 2020, 7, 1514.	9.3	47
7	Silicon Photonics Rectangular Universal Interferometer. Laser and Photonics Reviews, 2017, 11, 1700219.	8.7	37
8	Ge-on-Si modulators operating at mid-infrared wavelengths up to 8- μm . Photonics Research, 2019, 7, 8280	8.0	36
9	Group IV mid-infrared photonics [Invited]. Optical Materials Express, 2018, 8, 2276.	3.0	34
10	Mid-Infrared Nanometallic Antenna Assisted Silicon Waveguide Based Bolometers. ACS Photonics, 2019, 6, 3253-3260.	6.6	27
11	Silicon-on-insulator free-carrier injection modulators for the mid-infrared. Optics Letters, 2019, 44, 915.	3.3	26
12	CORNERSTONE's Silicon Photonics Rapid Prototyping Platforms: Current Status and Future Outlook. Applied Sciences (Switzerland), 2020, 10, 8201.	2.5	23
13	Mid-infrared suspended waveguide platform and building blocks. IET Optoelectronics, 2019, 13, 55-61.	3.3	21
14	Thick BaTiO ₃ Epitaxial Films Integrated on Si by RF Sputtering for Electro-Optic Modulators in Si Photonics. ACS Applied Materials & Interfaces, 2021, 13, 51230-51244.	8.0	20
15	Nanometallic antenna-assisted amorphous silicon waveguide integrated bolometer for mid-infrared. Optics Letters, 2021, 46, 677.	3.3	17
16	High-speed silicon Michelson interferometer modulator and streamlined IMDD PAM-4 transmission of Mach-Zehnder modulators for the 2- μm wavelength band. Optics Express, 2021, 29, 14438.	3.4	9
17	Waveguide integrated graphene mid-infrared photodetector. , 2018, , .		9
18	Co-Design of Electronics and Photonics Components for Silicon Photonics Transmitters. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
19	A Si Optical Modulator Based on Fano-Like Resonance. IEEE Photonics Technology Letters, 2021, 33, 1209-1212.	2.5	6
20	Mid-infrared silicon-on-insulator waveguides with single-mode propagation over an octave of frequency. Optics Express, 2022, 30, 8560.	3.4	5
21	Experimental quantification of the free-carrier effect in silicon waveguides at extended wavelengths. Optics Express, 2019, 27, 166.	3.4	3
22	Mid-infrared Ge-on-Si electro-absorption modulator. , 2017, , .		2
23	Integrated RF-photonics delay lines using reconfigurable photonic waveguide meshes. , 2017, , .		2
24	Ge Ion Implanted Photonic Devices and Annealing for Emerging Applications. Micromachines, 2022, 13, 291.	2.9	2
25	Towards autonomous testing of photonic integrated circuits. Proceedings of SPIE, 2017, , .	0.8	1
26	Compact programmable RF-photonics filters using integrated waveguide mesh processors. , 2017, , .		1
27	20-Gb/s Silicon Optical Modulators for the 2 $\frac{1}{4}$ μ m Wavelength Band. , 2018, , .		1
28	Silicon and Germanium Mid-Infrared Optical Modulators. , 2018, , .		1
29	Advancing silicon photonics by germanium ion implantation into silicon. , 2018, , .		1
30	All silicon approach to modulation and detection at $\lambda = 2 \mu$ m. , 2018, , .		1
31	25 Gbit/s silicon based modulators for the 2 μ m wavelength band. , 2020, , .		1
32	Investigations into group IV photonic waveguides with a wide working optical bandwidth. , 2020, , .		1
33	Photodetection at 3.8 μ m Using Intrinsic Monolithic Integrated Germanium Photodiodes. , 2021, , .		1
34	Ion implantation in silicon to facilitate testing of photonic circuits. , 2017, , .		0
35	Germanium and silicon photonic integrated circuits for the mid-infrared. , 2017, , .		0
36	Ion implantation in silicon for photonic device trimming. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Silicon RF-Photonics Processor Reconfigurable Core. , 2017, , .		0
38	Silicon Optical Modulators for Data Transmission in Different Wavelength Bands. , 2019, , .		0
39	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
40	High Speed Silicon Capacitor Modulators for TM Polarisation. , 2019, , .		0
41	Suspended Silicon Integrated Platform for the Long-Wavelength Mid-Infrared Band. , 2019, , .		0
42	Group IV mid-infrared devices and circuits. , 2018, , .		0
43	Group IV mid-infrared photonics for communications and sensing. , 2022, , .		0