

Frederic Boeuf

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,779
citations

759233

12
h-index

794594

19
g-index

27
all docs

27
docs citations

27
times ranked

2265
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on silicon photonics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 073003.	2.2	915
2	Efficient low-loss InGaAsP/Si hybrid MOS optical modulator. <i>Nature Photonics</i> , 2017, 11, 486-490.	31.4	166
3	Multi-\$V_{T}\$ UTBB FDSOI Device Architectures for Low-Power CMOS Circuit. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 2473-2482.	3.0	162
4	Ultra-low-threshold continuous-wave and pulsed lasing in tensile-strained GeSn alloys. <i>Nature Photonics</i> , 2020, 14, 375-382.	31.4	145
5	Silicon Photonics R&D and Manufacturing on 300-mm Wafer Platform. <i>Journal of Lightwave Technology</i> , 2016, 34, 286-295.	4.6	90
6	Silicon-germanium receivers for short-wave-infrared optoelectronics and communications. <i>Nanophotonics</i> , 2021, 10, 1059-1079.	6.0	51
7	Reduced Lasing Thresholds in GeSn Microdisk Cavities with Defect Management of the Optically Active Region. <i>ACS Photonics</i> , 2020, 7, 2713-2722.	6.6	42
8	Sub-decibel silicon grating couplers based on L-shaped waveguides and engineered subwavelength metamaterials. <i>Optics Express</i> , 2019, 27, 26239.	3.4	38
9	III-V/Si Hybrid MOS Optical Phase Shifter for Si Photonic Integrated Circuits. <i>Journal of Lightwave Technology</i> , 2019, 37, 1474-1483.	4.6	34
10	Co-integrated 13 μ m hybrid III-V/silicon tunable laser and silicon Mach-Zehnder modulator operating at 25Gb/s. <i>Optics Express</i> , 2016, 24, 30379.	3.4	32
11	Comprehensive Study on Chip-Integrated Germanium Pin Photodetectors for Energy-Efficient Silicon Interconnects. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-9.	1.9	25
12	GeSnOI mid-infrared laser technology. <i>Light: Science and Applications</i> , 2021, 10, 232.	16.6	18
13	Dual-band fiber-chip grating coupler in a 300 mm silicon-on-insulator platform and 193 nm deep-UV lithography. <i>Optics Letters</i> , 2021, 46, 617.	3.3	12
14	Low loss poly-silicon for high performance capacitive silicon modulators. <i>Optics Express</i> , 2018, 26, 5983.	3.4	9
15	QPSK Modulation in the O-Band Using a Single Dual-Drive Mach-Zehnder Silicon Modulator. <i>Journal of Lightwave Technology</i> , 2018, 36, 3935-3940.	4.6	8
16	Ultrahigh-Sensitive CMOS pH Sensor Developed in the BEOL of Standard 28 nm UTBB FDSOI. <i>IEEE Journal of the Electron Devices Society</i> , 2018, 6, 1026-1032.	2.1	7
17	Capacitive Modulator Design Optimization Using Si and Strained-SiGe for Datacom Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	6
18	Si microring resonator optical switch based on optical phase shifter with ultrathin-InP/Si hybrid metal-oxide-semiconductor capacitor. <i>Optics Express</i> , 2021, 29, 18502.	3.4	5

#	ARTICLE	IF	CITATIONS
19	Design of integrated capacitive modulators for 56Gbps operation. , 2016, , .		4
20	Silicon slotted photonic crystal cavities fabricated by deep-ultraviolet lithography. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2898.	2.1	4
21	High-efficiency, Low-loss Optical Phase Modulator based on III-V/Si Hybrid MOS Capacitor. , 2018, , .		3
22	Monolithic integration of hybrid III-V/Si lasers and Si-based modulators for data transmission up to 25Gbps. , 2017, , .		1
23	Monolithic Integration of III-V/Si Hybrid MOS Optical Phase Shifter and InGaAs Membrane Photodetector. , 2021, , .		1
24	Silicon Photonics Platform from Datacom to Sensing Applications. , 2021, , .		1
25	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		0
26	Low loss grating coupled optical interfaces for large volume fabrication with deep ultraviolet optical lithography. , 2018, , .		0