

Stefan Lischke

List of Publications by Year in descending order

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42
papers

808
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840776

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43
all docs

43
docs citations

43
times ranked

690
citing authors

#	ARTICLE	IF	CITATIONS
1	High bandwidth, high responsivity waveguide-coupled germanium p-i-n photodiode. Optics Express, 2015, 23, 27213.	3.4	115
2	A BaTiO ₃ -Based Electro-Optic Pockels Modulator Monolithically Integrated on an Advanced Silicon Photonics Platform. Journal of Lightwave Technology, 2019, 37, 1456-1462.	4.6	106
3	Ultra-fast germanium photodiode with 3-dB bandwidth of 265 GHz. Nature Photonics, 2021, 15, 925-931.	31.4	106
4	A monolithic bipolar CMOS electronic-plasmonic high-speed transmitter. Nature Electronics, 2020, 3, 338-345.	26.0	89
5	A 40 Gb/s Monolithically Integrated Linear Photonic Receiver in a $0.25\text{-}\mu\text{m}$ BiCMOS SiGe:C Technology. IEEE Microwave and Wireless Components Letters, 2015, 25, 469-471.	3.2	60
6	High-performance photonic BiCMOS process for the fabrication of high-bandwidth electronic-photonic integrated circuits. , 2015, , .		32
7	Monolithically Integrated 25Gbit/sec Receiver for $1.55\text{-}\mu\text{m}$ in Photonic BiCMOS Technology. , 2014, , .		28
8	Substrate Design and Thermal Budget Tuning for Integration of Photonic Components in a High-Performance SiGe:C BiCMOS Process. ECS Transactions, 2013, 50, 297-303.	0.5	21
9	Toward coherent O-band data center interconnects. Frontiers of Optoelectronics, 2021, 14, 414-425.	3.7	21
10	Monolithically Integrated High-Extinction-Ratio MZM With a Segmented Driver in Photonic BiCMOS. IEEE Photonics Technology Letters, 2016, 28, 2866-2869.	2.5	20
11	High-speed, waveguide Ge PIN photodiodes for a photonic BiCMOS process. , 2014, , .		19
12	(Invited) SiGe BiCMOS for Optoelectronics. ECS Transactions, 2016, 75, 121-139.	0.5	17
13	High-performance BiCMOS Si photonics platform. , 2015, , .		14
14	BiCMOS silicon photonics platform for fabrication of high-bandwidth electronic-photonic integrated circuits. , 2016, , .		14
15	A novel 25 Gbps electro-optic Pockels modulator integrated on an advanced Si photonic platform. , 2017, , .		13
16	Multiband Silicon Photonic ePIC Coherent Receiver for 64 GBd QPSK. Journal of Lightwave Technology, 2022, 40, 3331-3337.	4.6	13
17	Plasmonic high-speed photonics for co-integration with electronics. Japanese Journal of Applied Physics, 2021, 60, SB0806.	1.5	12
18	Low dark current Ge PIN photodiode for a high-performance, photonic BiCMOS process for radio-over-fiber applications. , 2012, , .		11

#	ARTICLE	IF	CITATIONS
19	Total Ionizing Dose Effects in 70-GHz Bandwidth Photodiodes in a SiGe Integrated Photonics Platform. IEEE Transactions on Nuclear Science, 2019, 66, 125-133.	2.0	11
20	Monolithically Integrated 10Gbit/sec Silicon Modulator with Driver in 0.25 μ m SiGe:C BiCMOS. , 2013, , .		10
21	Silicon nitride waveguide coupled 67+ GHz Ge photodiode for non-SOI PIC and ePIC platforms. , 2019, , .		10
22	Advanced photonic BiCMOS technology with high-performance Ge photo detectors. , 2019, , .		9
23	A wideband monolithically integrated photonic receiver in 0.25- μ m SiGe:C BiCMOS technology. , 2016, , .		8
24	Ge Photodiode with -3 dB OE Bandwidth of 110 GHz for PIC and ePIC Platforms. , 2020, , .		8
25	High-bandwidth, waveguide-coupled Ge p-i-n photodiode with high C- and L-band responsivity. , 2015, , .		6
26	First Demonstration of Fully Integrated Segmented Driver and MZM in $0.25\text{-}\mu\text{m}$ SiGe BiCMOS employing 112 Gb/s PAM4 over 60 km SSMF. , 2018, , .		6
27	Monolithic integration of high bandwidth waveguide coupled Ge photodiode in a photonic BiCMOS process. , 2015, , .		4
28	High-speed, high-responsivity Ge photodiode with NiSi contacts for an advanced photonic BiCMOS technology. , 2017, , .		4
29	Monolithic photonic BiCMOS technology for high-speed receiver applications. , 2017, , .		4
30	Silicon photonics for 100 Gbit/s intra-data center optical interconnects. Proceedings of SPIE, 2016, , .	0.8	3
31	Performance improvement of a monolithically integrated C-Band receiver enabled by an advanced photonic BiCMOS process. , 2017, , .		3
32	High-Efficiency Grating Couplers for Integration into a High-Performance Photonic BiCMOS Process. , 2013, , .		3
33	Photonic BiCMOS technology "Enabler for Si-based, monolithically integrated transceivers towards 400 Gbps. , 2016, , .		2
34	Photonic - Electronic platform for next generation optical transport network. , 2013, , .		1
35	Design effects on the performance of high-speed Ge photo detectors. , 2016, , .		1
36	High-performance waveguide-coupled Ge photo detectors for a photonic BiCMOS Technology. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Very High-Speed Waveguide Integrated Germanium Photo Detectors. , 2021, , .		1
38	Side-use of a Ge p-i-n photo diode for electrical application in a photonic BiCMOS technology. , 2016, , .		0
39	High-Efficiency Grating Couplers for Integration into a High-Performance Photonic BiCMOS Process. , 2013, , .		0
40	Waveguide-Coupled Ge Photodiodes with 3-dB Bandwidth ≈ 110 GHz. , 2021, , .		0
41	(Invited) Directly Silicon Nitride Waveguide Coupled Ge Photodiode for Non-SOI PIC and Epic Platforms. ECS Transactions, 2020, 98, 315-324.	0.5	0
42	(Invited) Directly Silicon Nitride Waveguide Coupled Ge Photodiode for Non-SOI PIC and Epic Platforms. ECS Meeting Abstracts, 2020, MA2020-02, 1746-1746.	0.0	0