

Erman Timurdogan

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,662
citations

430874

18
h-index

794594

19
g-index

32
all docs

32
docs citations

32
times ranked

2734
citing authors

#	ARTICLE	IF	CITATIONS
1	A Silicon Photonic Data Link with a Monolithic Erbium-Doped Laser. Scientific Reports, 2020, 10, 1114.	3.3	27
2	CMOS-Compatible Optical Phased Array Powered by a Monolithically-Integrated Erbium Laser. Journal of Lightwave Technology, 2019, 37, 5982-5987.	4.6	38
3	Integrated Optical Phased Arrays: Architectures and Applications. , 2019, , .		0
4	A Single-Chip Optical Phased Array in a Wafer-Scale Silicon Photonics/CMOS 3D-Integration Platform. IEEE Journal of Solid-State Circuits, 2019, 54, 3061-3074.	5.4	96
5	Long-Range LiDAR and Free-Space Data Communication With High-Performance Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	330
6	Monolithically integrated erbium-doped tunable laser on a CMOS-compatible silicon photonics platform. Optics Express, 2018, 26, 16200.	3.4	56
7	Whispering gallery germanium-on-silicon photodetector. Optics Letters, 2017, 42, 2878.	3.3	18
8	Mode-evolution-based coupler for high saturation power Ge-on-Si photodetectors. Optics Letters, 2017, 42, 851.	3.3	46
9	Large-scale silicon nitride nanophotonic phased arrays at infrared and visible wavelengths. Optics Letters, 2017, 42, 21.	3.3	227
10	Mode-evolution based coupler for Ge-on-Si photodetectors. , 2016, , .		2
11	A Monolithically-Integrated Chip-to-Chip Optical Link in Bulk CMOS. IEEE Journal of Solid-State Circuits, 2015, 50, 828-844.	5.4	65
12	Large-Scale Silicon Photonic Circuits for Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 264-278.	2.9	81
13	Large-Scale Integrated Silicon Photonic Circuits for Optical Phased Arrays. , 2014, , .		13
14	Four-port integrated polarizing beam splitter. Optics Letters, 2014, 39, 965.	3.3	34
15	An ultralow power athermal silicon modulator. Nature Communications, 2014, 5, 4008.	12.8	317
16	Reduced Wafer-Scale Frequency Variation in Adiabatic Microring Resonators. , 2014, , .		9
17	Broadband mode-evolution-based four-port polarizing beam splitter. , 2014, , .		0
18	Integrated microring tuning in deep-trench bulk CMOS. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
19	Optical phased array on silicon photonic platform. , 2013, , .		1
20	Large-scale nanophotonic phased array. Nature, 2013, 493, 195-199.	27.8	964
21	An Interior-Ridge Silicon Microring Modulator. Journal of Lightwave Technology, 2013, 31, 3907-3914.	4.6	18
22	Large-Scale Optical Phased Arrays Enabled by Silicon Photonics. , 2013, , .		1
23	L-shaped resonant microring (LRM) modulator. , 2013, , .		1
24	Optical Beamform Engineering Using Phase and Amplitude Coded Nanophotonic Antenna Arrays. , 2013, , .		1
25	Adiabatic microring modulators. Optics Express, 2012, 20, 29223.	3.4	34
26	Ultralow-loss silicon ring resonators. Optics Letters, 2012, 37, 4236.	3.3	142
27	Vertical emitting aperture nanoantennas. Optics Letters, 2012, 37, 1454.	3.3	19
28	Adiabatic resonant microring (ARM) modulator. , 2012, , .		3
29	Ultralow-loss silicon ring resonators. , 2012, , .		10
30	Automated Wavelength Recovery for Microring Resonators. , 2012, , .		25
31	MEMS biosensor for detection of Hepatitis A and C viruses in serum. Biosensors and Bioelectronics, 2011, 28, 189-194.	10.1	74
32	Detection of human $\hat{\mu}$ -opioid antibody using microresonators with integrated optical readout. Biosensors and Bioelectronics, 2010, 26, 195-201.	10.1	7