

# 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	Large-scale nanophotonic phased array. Nature, 2013, 493, 195-199.	27.8	964
2	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
3	An ultralow power athermal silicon modulator. Nature Communications, 2014, 5, 4008.	12.8	317
4	Large-scale silicon nitride nanophotonic phased arrays at infrared and visible wavelengths. Optics Letters, 2017, 42, 21.	3.3	227
5	Ultralow-loss silicon ring resonators. Optics Letters, 2012, 37, 4236.	3.3	142
6	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
7	Large-Scale Silicon Photonic Circuits for Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 264-278.	2.9	81
8	MEMS biosensor for detection of Hepatitis A and C viruses in serum. Biosensors and Bioelectronics, 2011, 28, 189-194.	10.1	74
9	A Monolithically-Integrated Chip-to-Chip Optical Link in Bulk CMOS. IEEE Journal of Solid-State Circuits, 2015, 50, 828-844.	5.4	65
10	Monolithically integrated erbium-doped tunable laser on a CMOS-compatible silicon photonics platform. Optics Express, 2018, 26, 16200.	3.4	56
11	Mode-evolution-based coupler for high saturation power Ge-on-Si photodetectors. Optics Letters, 2017, 42, 851.	3.3	46
12	CMOS-Compatible Optical Phased Array Powered by a Monolithically-Integrated Erbium Laser. Journal of Lightwave Technology, 2019, 37, 5982-5987.	4.6	38
13	Adiabatic microring modulators. Optics Express, 2012, 20, 29223.	3.4	34
14	Four-port integrated polarizing beam splitter. Optics Letters, 2014, 39, 965.	3.3	34
15	A Silicon Photonic Data Link with a Monolithic Erbium-Doped Laser. Scientific Reports, 2020, 10, 1114.	3.3	27
16	Automated Wavelength Recovery for Microring Resonators. , 2012, , .		25
17	Vertical emitting aperture nanoantennas. Optics Letters, 2012, 37, 1454.	3.3	19
18	An Interior-Ridge Silicon Microring Modulator. Journal of Lightwave Technology, 2013, 31, 3907-3914.	4.6	18

#	ARTICLE	IF	CITATIONS
19	Whispering gallery germanium-on-silicon photodetector. <i>Optics Letters</i> , 2017, 42, 2878.	3.3	18
20	Large-Scale Integrated Silicon Photonic Circuits for Optical Phased Arrays. , 2014, , .		13
21	Ultralow-loss silicon ring resonators. , 2012, , .		10
22	Reduced Wafer-Scale Frequency Variation in Adiabatic Microring Resonators. , 2014, , .		9
23	Detection of human $\hat{\mu}$ -opioid antibody using microresonators with integrated optical readout. <i>Biosensors and Bioelectronics</i> , 2010, 26, 195-201.	10.1	7
24	Adiabatic resonant microring (ARM) modulator. , 2012, , .		3
25	Integrated microring tuning in deep-trench bulk CMOS. , 2013, , .		3
26	Mode-evolution based coupler for Ge-on-Si photodetectors. , 2016, , .		2
27	Optical phased array on silicon photonic platform. , 2013, , .		1
28	Large-Scale Optical Phased Arrays Enabled by Silicon Photonics. , 2013, , .		1
29	L-shaped resonant microring (LRM) modulator. , 2013, , .		1
30	Optical Beamform Engineering Using Phase and Amplitude Coded Nanophotonic Antenna Arrays. , 2013, , .		1
31	Integrated Optical Phased Arrays: Architectures and Applications. , 2019, , .		0
32	Broadband mode-evolution-based four-port polarizing beam splitter. , 2014, , .		0