Alireza As Samani

List of Publications by Year
in descending order

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57	1,291	394421	361022
papers	citations	19 h-index	35 g-index

58	58	58	1209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design, analysis, and transmission system performance of a 41 GHz silicon photonic modulator. Optics Express, 2015, 23, 14263.	3.4	161
2	Optimization of thermo-optic phase-shifter design and mitigation of thermal crosstalk on the SOI platform. Optics Express, 2019, 27, 10456.	3.4	131
3	Focusing-curved subwavelength grating couplers for ultra-broadband silicon photonics optical interfaces. Optics Express, 2014, 22, 18224.	3.4	85
4	A Low-Voltage 35-GHz Silicon Photonic Modulator-Enabled 112-Gb/s Transmission System. IEEE Photonics Journal, 2015, 7, 1-13.	2.0	80
5	Experimental parametric study of 128 Gb/s PAM-4 transmission system using a multi-electrode silicon photonic Mach Zehnder modulator. Optics Express, 2017, 25, 13252.	3.4	78
6	Silicon Photonic Segmented Modulator-Based Electro-Optic DAC for 100 Gb/s PAM-4 Generation. IEEE Photonics Technology Letters, 2015, 27, 2433-2436.	2.5	70
7	A Silicon Photonic PAM-4 Modulator Based on Dual-Parallel Machâ€“Zehnder Interferometers. IEEE Photonics Journal, 2016, 8, 1-10.	2.0	51
8	High-speed compact silicon photonic Michelson interferometric modulator. Optics Express, 2014, 22, 26788.	3.4	45
9	Silicon Photonic Machâ€“Zehnder Modulator Architectures for on Chip PAM-4 Signal Generation. Journal of Lightwave Technology, 2019, 37, 2989-2999.	4.6	42
10	168-Gb/s Single Carrier PAM4 Transmission for Intra-Data Center Optical Interconnects. IEEE Photonics Technology Letters, 2017, 29, 314-317.	2.5	40
11	Digital Signal Processing for Dual-Polarization Intensity and Interpolarization Phase Modulation Formats Using Stokes Detection. Journal of Lightwave Technology, 2016, 34, 188-195.	4.6	37
12	High-speed low-chirp PAM-4 transmission based on push-pull silicon photonic microring modulators. Optics Express, 2017, 25, 13222.	3.4	37
13	CMOS-compatible multi-band plasmonic TE-pass polarizer. Optics Express, 2018, 26, 30292.	3.4	32
14	Adiabatic Coupler With Design-Intended Splitting Ratio. Journal of Lightwave Technology, 2019, 37, 6147-6155.	4.6	31
15	400 Gb/s O-band silicon photonic transmitter for intra-datacenter optical interconnects. Optics Express, 2019, 27, 10258.	3.4	30
16	Net 220 Gbps/Î» IM/DD Transmssion in O-Band and C-Band With Silicon Photonic Traveling-Wave MZM. Journal of Lightwave Technology, 2021, 39, 4270-4278.	4.6	24
17	Enabling High-Capacity Long-Reach Direct Detection Transmission With QAM-PAM Stokes Vector Modulation. Journal of Lightwave Technology, 2018, 36, 460-467.	4.6	23
18	First demonstration of a 400 Gb/s 4Î» CWDM TOSA for datacenter optical interconnects. Optics Express, 2018, 26, 19742.	3.4	23

#	Article	IF	Citations
19	Silicon Photonic Ring-Assisted MZI for 50 Gb/s DAC-Less and DSP-Free PAM-4 Transmission. IEEE Photonics Technology Letters, 2017, 29, 1046-1049.	2.5	21
20	240 Gbit/s Silicon Photonic Mach-Zehnder Modulator Enabled by Two 2.3-Vpp Drivers. Journal of Lightwave Technology, 2020, , 1-1.	4.6	20
21	180 Gb/s single carrier single polarization 16-QAM transmission using an O-band silicon photonic IQM. Optics Express, 2019, 27, 14447.	3.4	17
22	200 Gb/s transmission using a dual-polarization O-Band silicon photonic intensity modulator for Stokes vector direct detection applications. Optics Express, 2017, 25, 30336.	3.4	16
23	100 Gb/s PAM4 transmission system for datacenter interconnects using a SiP ME-MZM based DAC-less transmitter and a VSB self-coherent receiver. Optics Express, 2018, 26, 23969.	3.4	16
24	Optical and thermal analysis of the light-heat conversion process employing an antenna-based hybrid plasmonic waveguide for HAMR. Optics Express, 2018, 26, 1752.	3.4	16
25	Demonstration of a 120Â° hybrid based simplified coherent receiver on SOI for high speed PON applications. Optics Express, 2018, 26, 31222.	3.4	16
26	Modulator material impact on chirp, DSP, and performance in coherent digital links: comparison of the lithium niobate, indium phosphide, and silicon platforms. Optics Express, 2018, 26, 22471.	3.4	14
27	Integrated polarisation handling devices. IET Optoelectronics, 2020, 14, 109-119.	3.3	13
28	Silicon-based optical links using novel direct detection, coherent detection and dual polarization methods for new generation transport architectures. Optics Communications, 2019, 450, 48-60.	2.1	11
29	An 80 Gb/s Silicon Photonic Modulator Based on the Principle of Overlapped Resonances. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	9
30	25 and 50 Gb/s/${{lambda}}$ PAM-4 Transmission Over 43 and 21 km Using a Simplified Coherent Receiver on SOI. IEEE Photonics Technology Letters, 2019, 31, 799-802.	2.5	9
31	A High Extinction Ratio, Broadband, and Compact Polarization Beam Splitter Enabled by Cascaded MMIs on Silicon-on-Insulator. , 2016, , .		9
32	A 4×4 fully non-blocking switch on SOI based on interferometric thermo-optic phase shifters. , 2014, , .		8
33	200 GBIT/S net rate transmission over 2 KM with a silicon photonic segmented MZM. , 2019, , .		7
34	Silicon Photonics Modulator Architectures for Multi-Level Signal Generation and Transmission. , 2017, , .		7
35	Highly Sensitive, 112 Gb/s O-band Waveguide Coupled Silicon-Germanium Avalanche Photodetectors. , 2019, , .		7
36	Silicon Photonic Single-Segment IQ Modulator for Net 1 Tbps/Î» Transmission Using All-Electronic Equalization. Journal of Lightwave Technology, 2023, 41, 1192-1199.	4.6	7

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37	OOK and PAM optical modulation using a single drive push pull silicon Mach-Zehnder modulator. , 2014, , .		6
38	Silicon photonic dual-drive MIM based 56 Gb/s DAC-less and DSP-free PAM-4 transmission. Optics Express, 2018, 26, 5395.	3.4	6
39	Dual Parallel Multielectrode Traveling Wave Machâ€“Zehnder Modulator for 200 Gb/s Intra-datacenter Optical Interconnects. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	5
40	112 Gb/s PAM4 Transmission over 2 km SMF Using a C-band GeSi Electro-Absorption Modulator. , 2018, , .		5
41	An RF Scanning Receiver on a Silicon Photonic Chip. , 2019, , .		4
42	A 4-lane 400 Gb/s silicon photonic transceiver for intra-datacenter optical interconnects. , 2019, , .		4
43	Analysis and Experimental Study of a Silicon Photonic Single MRM-Assisted MZI PAM-4 Modulator. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	3
44	High extinction ratio and broadband O-band polarization splitter and rotator on silicon-on-insulator. , 2019, , .		3
45	A 41 GHz Slow-Wave Series Push-Pull Silicon Photonic Modulator. , 2015, , .		2
46	Dual Polarization O-Band Silicon Photonic Intensity Modulator for Stokes Vector Direct Detection Systems. , 2017, , .		2
47	56-Gbps OOK Transmission Using Silicon Microring Assisted Mach-Zehnder Interferometer. , 2016, , .		2
48	Analysis, Modeling, and Mitigation of Parasitic Resonances in Integrated Metallic Seal Rings. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1082-1091.	2.5	1
49	C-Band and O-Band Silicon Photonic Based Low-Power Variable Optical Attenuators. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	1
50	Plasmonic Integrated Multimode Filter. , 2019, , .		1
51	56 Gb/s DAC-less and DSP-free PAM-4 Using A Silicon Photonic Dual-drive Michelson Interferometric Modulator. , 2018, , .		1
52	A Lumped Michelson Interferometric Modulator in Silicon. , 2014, , .		1
53	Analysis of integrated metal seal ring resonance. , 2017, , .		0
54	Silicon Microring Modulator with a pin-Diode-Loaded Multimode Interferometer Coupler. , 2019, , .		0

#	Article	IF	Citations
55	A C-band Push-pull Dual-ring Silicon Photonic Modulator for 20 km SSMF transmission without CD compensation. , 2017, , .		0
56	0-40 GHz-Tunable RF Receivers On Chip exploiting a Noise-Cancelling Architecture and a Silicon Photonic Modulator. , 2019, , .		0
57	23-dB average isolation using a silicon photonic Mach-Zehnder modulator. Optics Express, 2020, 28, 26056.	3.4	0