Paraskevas Bakopoulos

List of Publications by Year
in descending order

52 papers	504 citations	759233 12 h-index	752698 20 g-index
52 all docs	52 docs citations	52 times ranked	583 citing authors

#	Article	IF	Citations
1	180 GBd Electronic-Plasmonic IC Transmitter. , 2022, , .		3
2	Plasmonicsâ€"high-speed photonics for co-integration with electronics. Japanese Journal of Applied Physics, 2021, 60, SB0806.	1.5	12
3	End-to-End Real-Time Demonstration of the Slotted, SDN-Controlled NEPHELE Optical Datacenter Network. Photonics, 2020, 7, 44.	2.0	2
4	A monolithic bipolar CMOS electronicâ€"plasmonic high-speed transmitter. Nature Electronics, 2020, 3, 338-345.	26.0	89
5	High-Speed VCSEL-Based Transceiver for 200 GbE Short-Reach Intra-Datacenter Optical Interconnects. Applied Sciences (Switzerland), 2019, 9, 2488.	2.5	12
6	Design and Experimental Verification of a Transimpedance Amplifier for 64-Gb/s PAM-4 Optical Links. Journal of Lightwave Technology, 2018, 36, 195-203.	4.6	7
7	NEPHELE: An End-to-End Scalable and Dynamically Reconfigurable Optical Architecture for Application-Aware SDN Cloud Data Centers. , 2018, 56, 178-188.		45
8	Optical datacenter network employing slotted (TDMA) operation for dynamic resource allocation. , 2018, , .		2
9	Slotted TDMA and optically switched network for disaggregated datacenters. , 2017, , .		7
10	A Flexible, High-Performance FPGA Implementation of a Feed-Forward Equalizer for Optical Interconnects up to 112 Gb/s. Journal of Signal Processing Systems, 2017, 88, 107-125.	2.1	6
11	Slotted optical datacenter network with sub-wavelength resource allocation. , 2017, , .		0
12	A 56 Gbaud reconfigurable FPGA feed-forward equalizer for optical datacenter networks with flexible baudrate- and modulation-format. , 2016, , .		1
13	Optical PAM-4 generation through polarization multiplexing in single-polarization single-mode VCSELs. , 2016, , .		2
14	A scalable optically-switched datacenter network with multicasting. , 2016, , .		6
15	112 Gb/s sub-cycle 16-QAM Nyquist-SCM for intra-datacenter connectivity. Proceedings of SPIE, 2016, , .	0.8	2
16	1.55-Î¼m Dilute Nitride SOAs with low temperature sensitivity for coolerless on-chip operation. , 2015, , .		1
17	Fully Passive Resiliency Node for Optical Access [Invited]. Journal of Optical Communications and Networking, 2015, 7, B10.	4.8	2
18	40 Gb/s PAM-4 Transmitter IC for Long-Wavelength VCSEL Links. IEEE Photonics Technology Letters, 2015, 27, 344-347.	2.5	27

#	Article	IF	Citations
19	SiN-assisted polarization-insensitive multicore fiber to silicon photonics interface. Proceedings of SPIE, 2015, , .	0.8	1
20	Passive ROADM Flexibility in Optical Access With Spectral and Spatial Reconfigurability. IEEE Journal on Selected Areas in Communications, 2015, 33, 2837-2846.	14.0	16
21	Low Cost 4-PAM Heterodyne Digital Receiver for Long Reach Passive Optical Networks. , 2015, , .		1
22	Photonic integration enabling new multiplexing concepts in optical board-to-board and rack-to-rack interconnects. , 2014, , .		2
23	Actively Q-Switched Multisegmented Nd:YAG Laser Pumped at 885 nm for Remote Sensing. IEEE Photonics Technology Letters, 2014, 26, 1890-1893.	2.5	8
24	32 Gbaud QPSK and 16QAM field trial transmission over 560 km with GaAs IQ modulator for hybrid integration over SOI photonic circuits. , 2014, , .		0
25	Development and testing of a high-power Q-switched DPSS laser for lidar applications: ESA QOMA project case. , 2013, , .		1
26	Full-Duplex 4-PAM Transmission for Capacity Upgrade in Loop-Back PONs. IEEE Photonics Technology Letters, 2013, 25, 1125-1128.	2.5	10
27	Preliminary experimental and simulation results of the ESA QOMA project: a new DPSS laser source suitable for space applications. Proceedings of SPIE, 2013, , .	0.8	1
28	Blind SNR estimation for QAM constellations based on the signal magnitude statistics. , 2013, , .		1
29	Flexible quadrature amplitude modulation with semiconductor optical amplifier and electroabsorption modulator. Optics Letters, 2012, 37, 3222.	3.3	5
30	Quaternary TDM-PAM as upgrade path of access PON beyond 10Gb/s. Optics Express, 2012, 20, B15.	3.4	6
31	Bandpass sampling in heterodyne receivers for coherent optical access networks. Optics Express, 2012, 20, 29404.	3.4	11
32	Deterministic Timing Jitter Analysis of SOA-Amplified Intensity-Modulated Optical Pulses. IEEE Photonics Journal, 2012, 4, 1947-1955.	2.0	6
33	All-Optical T-Flip-Flop Using a Single SOA-MZI-Based Latching Element. IEEE Photonics Technology Letters, 2012, 24, 748-750.	2.5	25
34	Full-Duplex 20/10 Gb/s WDM-PON with Remodulation of Chirped ASK and Multi-level Quaternary PAM and OFDM. , 2012, , .		2
35	Colorless ONU With All-Optical Clock Recovery for Full-Duplex Dense WDM PONs. IEEE Photonics Technology Letters, 2011, 23, 1433-1435.	2.5	2
36	Wavelength reuse in a colourless ONU with all-optical clock recovery for full-duplex dense WDM PONs. , 2011, , .		1

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37	An All-Optical Carrier Recovery Scheme for Access Networks With Simple ASK Modulation. Journal of Optical Communications and Networking, 2011, 3, 704.	4.8	8
38	Multi-format all-optical processing based on a large-scale, hybridly integrated photonic circuit. Optics Express, 2011, 19, 11479.	3.4	4
39	All-Optical Carrier Recovery with Periodic Optical Filtering for Wavelength Reuse in RSOA-based Colorless Optical Network Units in Full-Duplex 10Gbps WDM-PONs. , 2010, , .		8
40	Photonic Routing Systems Using All-optical, Hybrid Integrated Wavelength Converter Arrays. Journal of Networks, 2010, 5, .	0.4	0
41	Tb/s Transmission and Routing Systems Using Integrated Micro-Photonic Components. Journal of Networks, 2010, 5, .	0.4	0
42	A tunable continuous wave (CW) and short-pulse optical source for THz brain imaging applications. Measurement Science and Technology, 2009, 20, 104001.	2.6	16
43	Enabling Tb/s Photonic Routing: Development of Advanced Hybrid Integrated Photonic Devices to Realize High-Speed, All-Optical Packet Switching. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 849-860.	2.9	25
44	Enabling Tb/s photonic routing: Development of advanced hybrid integrated photonic devices to realize high-speed, all-optical networking. , 2008, , .		0
45	Optical signal processing using integrated multi-element SOAâ€“MZI switch arrays for packet switching. IET Optoelectronics, 2007, 1, 120.	3.3	15
46	All-Optical 3R Burst-Mode Reception at 40 Gb/s Using Four Integrated MZI Switches. Journal of Lightwave Technology, 2007, 25, 184-192.	4.6	22
47	On-the-Fly All-Optical Contention Resolution for NRZ and RZ Data Formats Using Packet Envelope Detection and Integrated Optical Switches. IEEE Photonics Technology Letters, 2007, 19, 538-540.	2.5	13
48	2$,imes,$2 Exchange/Bypass Switch Using 0.8 m of Highly Nonlinear Bismuth Oxide Fiber. IEEE Photonics Technology Letters, 2007, 19, 723-725.	2.5	9
49	Packet-level synchronization scheme for optical packet switched network nodes. Optics Express, 2006, 14, 12665.	3.4	5
50	40-Gb/s All-Optical Processing Systems Using Hybrid Photonic Integration Technology. Journal of Lightwave Technology, 2006, 24, 4903-4911.	4.6	36
51	Compact all-optical packet clock and data recovery circuit using generic integrated MZI switches. Optics Express, 2005, 13, 6401.	3.4	13
52	Optical pulse compression in a polarization insensitive non-linear loop mirror. Optics Communications, 2004, 238, 105-111.	2.1	5