

Theoni Alexoudi

List of Publications by Year in descending order

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46
papers

731
citations

567281

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times ranked

555
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical RAM and integrated optical memories: a survey. <i>Light: Science and Applications</i> , 2020, 9, 91.	16.6	98
2	Optics in Computing: From Photonic Network-on-Chip to Chip-to-Chip Interconnects and Disintegrated Architectures. <i>Journal of Lightwave Technology</i> , 2019, 37, 363-379.	4.6	87
3	Dual SOA-MZI Wavelength Converters Based on III-V Hybrid Integration on a μm -Scale Si Platform. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 560-563.	2.5	38
4	III-V-on-Si Photonic Crystal Nanocavity Laser Technology for Optical Static Random Access Memories. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 295-304.	2.9	38
5	Photonic (computational) memories: tunable nanophotonics for data storage and computing. <i>Nanophotonics</i> , 2022, 11, 3823-3854.	6.0	37
6	High-Port and Low-Latency Optical Switches for Disaggregated Data Centers: The Hipolâ Switch Architecture [Invited]. <i>Journal of Optical Communications and Networking</i> , 2018, 10, B102.	4.8	35
7	10âGb/s optical random access memory (RAM) cell. <i>Optics Letters</i> , 2019, 44, 1821.	3.3	34
8	Silicon photonic 8-Å—8 cyclic Arrayed Waveguide Grating Router for O-band on-chip communication. <i>Optics Express</i> , 2018, 26, 6276.	3.4	33
9	Bringing WDM Into Optical Static RAM Architectures. <i>Journal of Lightwave Technology</i> , 2013, 31, 988-995.	4.6	30
10	Optical Cache Memory Peripheral Circuitry: Row and Column Address Selectors for Optical Static RAM Banks. <i>Journal of Lightwave Technology</i> , 2013, 31, 4098-4110.	4.6	28
11	All-Optical T-Flip-Flop Using a Single SOA-MZI-Based Latching Element. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 748-750.	2.5	25
12	4-channel 200 Gb/s WDM O-band silicon photonic transceiver sub-assembly. <i>Optics Express</i> , 2020, 28, 5706.	3.4	25
13	Ultra-compact III-V-on-Si photonic crystal memory for flip-flop operation at 5 Gb/s. <i>Optics Express</i> , 2016, 24, 4270.	3.4	21
14	Column Address Selection in Optical RAMs With Positive and Negative Logic Row Access. <i>IEEE Photonics Journal</i> , 2013, 5, 7800410-7800410.	2.0	18
15	O-Band Silicon Photonic Transmitters for Datacom and Computercom Interconnects. <i>Journal of Lightwave Technology</i> , 2019, 37, 5140-5148.	4.6	18
16	A 40 Gb/s Chip-to-Chip Interconnect for 8-Socket Direct Connectivity Using Integrated Photonics. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8.	2.0	16
17	WDM-Based Silicon Photonic Multi-Socket Interconnect Architecture With Automated Wavelength and Thermal Drift Compensation. <i>Journal of Lightwave Technology</i> , 2020, 38, 6000-6006.	4.6	15
18	400 Gb/s Silicon Photonic Transmitter and Routing WDM Technologies for Glueless 8-Socket Chip-to-Chip Interconnects. <i>Journal of Lightwave Technology</i> , 2020, 38, 3366-3375.	4.6	14

#	ARTICLE	IF	CITATIONS
19	O-band Energy-efficient Broadcast-friendly Interconnection Scheme with SiPho Mach-Zehnder Modulator (MZM) & Arrayed Waveguide Grating Router (AWGR). , 2018, , .		14
20	Ditheringâ€based realâ€time control of cascaded silicon photonic devices by means of nonâ€invasive detectors. IET Optoelectronics, 2021, 15, 111-120.	3.3	13
21	52â€km-Long Transmission Link Using a 50â€Gb/s <i>O</i>-Band Silicon Microring Modulator Co-Packaged With a 1V-CMOS Driver. IEEE Photonics Journal, 2019, 11, 1-7.	2.0	11
22	Optical RAM Row With 20 Gb/s Optical Word Read/Write. Journal of Lightwave Technology, 2021, 39, 7061-7069.	4.6	8
23	Deterministic Timing Jitter Analysis of SOA-Amplified Intensity-Modulated Optical Pulses. IEEE Photonics Journal, 2012, 4, 1947-1955.	2.0	6
24	Crosstalk-Aware Wavelength-Switched All-to-All Optical Interconnect Using Sub-Optimal AWGRs. IEEE Photonics Technology Letters, 2019, 31, 1507-1510.	2.5	6
25	Silicon Photonic 16 Å— 16 Cyclic AWGR for DWDM O-Band Interconnects. IEEE Photonics Technology Letters, 2020, 32, 1233-1236.	2.5	6
26	Silicon circuits for chipâ€toâ€chip communications in multiâ€socket server board interconnects. IET Optoelectronics, 2021, 15, 102-110.	3.3	6
27	Multi-wavelength access gate for WDM-formatted words in optical RAM row architectures. Proceedings of SPIE, 2013, , .	0.8	5
28	Optical RAM Row Access With WDM-Enabled All-Passive Row/Column Decoders. IEEE Photonics Technology Letters, 2014, 26, 671-674.	2.5	5
29	Thick-SOI Echelle grating for any-to-any wavelength routing interconnection in multi-socket computing environments. , 2017, , .		5
30	Monolithically Integrated InP Bistable Photonic Waveguide Memory. IEEE Photonics Technology Letters, 2021, 33, 1274-1277.	2.5	5
31	Low-Loss Highly Tolerant Flip-Chip Couplers for Hybrid Integration of Si₃N₄ and Polymer Waveguides. IEEE Photonics Technology Letters, 2016, 28, 2748-2751.	2.5	4
32	Broadband 5Gb/s Optical RAM Cell over the C-band. , 2021, , .		4
33	480 Gbps WDM Transmission Through an Al₂O₃:Er³⁺ Waveguide Amplifier. Journal of Lightwave Technology, 2022, 40, 735-743.	4.6	4
34	Lossless 1 Å— 4 Silicon Photonic ROADM Based on a Monolithic Integrated Erbium Doped Waveguide Amplifier on a Si₃N₄ Platform. Journal of Lightwave Technology, 2022, 40, 1718-1725.	4.6	4
35	An all-optical 8-bit RAM storage unit with 2Å—4-bit WDM-formatted data words. , 2022, , .		4
36	Optical Content Addressable Memory Matchline and RAM table Encoding/Decoding using an integrated CAM cell. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
37	16-bit (4Å—4) Optical Random Access Memory (RAM) Bank. , 2022, , .		3
38	Optical memory architectures for fast routing address look-up (AL) table operation. JPhys Photonics, 2019, 1, 044005.	4.6	1
39	Guest editorial: IET optoelectronicsâ€™ special issue on optical interconnects. IET Optoelectronics, 2021, 15, 75-76.	3.3	1
40	8Å—40 Gbps WDM Amplification in a Monolithically Integrated Al ₂ O ₃ :Er ³⁺ -Si ₃ N ₄ Waveguide Amplifier. IEEE Photonics Technology Letters, 2021, 33, 1177-1180.	2.5	1
41	Automated Thermal Drift Compensation in WDM-based Silicon Photonic Multi-Socket Interconnect Systems. , 2020, , .		1
42	Dual-Layer Locality-Aware Optical Interconnection Architecture for Latency-Critical Resource Disaggregation Environments. Lecture Notes in Computer Science, 2020, , 299-309.	1.3	1
43	Silicon photonic-based transceivers and subsystems for on-board and inter-DC interconnects. , 2020, , .		0
44	Highly reliable polymer waveguide platform for multi-port photonic chip-packaging. , 2021, , .		0
45	Optics for Disaggregating Data Centers and Disintegrating Computing. Lecture Notes in Computer Science, 2020, , 274-285.	1.3	0
46	Temperature and Wavelength Drift Tolerant WDM Transmission and Routing in On-chip Silicon Photonic Interconnects. Optics Express, 0, , .	3.4	0