Sang-Yuep Kim

List of Publications by Year
in descending order

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24	316	1040056	996975
papers	citations	9	15
		h-index	g-index

24	24	24	148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PON Virtualization Including PHY Softwarization. , 2022, , .		1
2	Low-Latency PON PHY Implementation on GPUs for Fully Software-Defined Access Networks. IEEE Network, 2022, 36, 108-114.	6.9	8
3	Motion Control System With Time-Varying Delay Compensation for Access Edge Computing. IEEE Access, 2021, 9, 90669-90676.	4.2	8
4	Carrier Phase Estimation Softwarized on GPU Using Decision-Aided Phase Unwrapping for Flexible Optical Coherent Access Systems. Journal of Lightwave Technology, 2021, 39, 1706-1714.	4.6	9
5	Demonstration of Real-time Coherent 10-Gb/s QPSK Reception Implemented on a Commodity Server. , 2021, , .		6
6	Demonstration of Fully Softwarized 10G-EPON PHY Processing on a General-Purpose Server for Flexible Access Systems. Journal of Lightwave Technology, 2020, 38, 777-783.	4.6	21
7	Real-Time Implementation of Coherent Receiver DSP Adopting Stream Split Assignment on GPU for Flexible Optical Access Systems. Journal of Lightwave Technology, 2020, 38, 668-675.	4.6	16
8	Demonstration of Adaptive Image Transmission That Meets Various Application Requirements in 10G-EPON. IEEE Access, 2020, 8, 186433-186440.	4.2	5
9	Future optical access network enabled by modularization and softwarization of access and transmission functions [Invited]. Journal of Optical Communications and Networking, 2020, 12, D48.	4.8	14
10	Performance Analysis of Phase Noise Cancellation by Asymmetric CMA for Realizing Affordable Coherent PON Transceivers. Journal of Lightwave Technology, 2020, 38, 2231-2241.	4.6	1
11	Exploiting general purpose hardware in optical access systems [Invited]. Journal of Optical Communications and Networking, 2020, 12, A182.	4.8	4
12	Software Implementation of 10G-EPON Downstream Physical-Layer Processing Adopting CPU-GPU Cooperative Computing for Flexible Access Systems. IEEE Access, 2019, 7, 33888-33897.	4.2	12
13	Software Implementation of 10G-EPON Upstream Physical-Layer Processing for Flexible Access Systems. Journal of Lightwave Technology, 2019, 37, 1631-1637.	4.6	23
14	Coherent Receiver DSP Implemented on a General-Purpose Server for a Full Software-Defined Access System. Journal of Optical Communications and Networking, 2019, 11, A96.	4.8	10
15	Demonstration of 10-Gbps Real-Time Reedâ€“Solomon Decoding Using GPU Direct Transfer and Kernel Scheduling for Flexible Access Systems. Journal of Lightwave Technology, 2018, 36, 1875-1881.	4.6	28
16	10-Gb/s Software Implementation of Burst-Frame Synchronization Using Array-Access Bitshift and Dual-Stage Detection for Flexible Access Systems. Journal of Lightwave Technology, 2018, 36, 5656-5662.	4.6	17
17	Coherent Receiver DSP Implemented on a General-Purpose Server for Full Software-Defined Optical Access. , 2018, , .		8
18	10-Gbps Real-time Burst-Frame Synchronization Using Dual-Stage Detection for Full-Software Optical Access Systems. , 2018, , .		7

#	Article	IF	Citations
19	Demonstration of Real-Time Burst-Mode Digital Coherent Reception With Wide Dynamic Range in DSP-Based PON Upstream. Journal of Lightwave Technology, 2017, 35, 1392-1398.	4.6	29
20	Real-Time Demonstration of PHY Processing on CPU for Programmable Optical Access Systems. , 2016, , .		9
21	A Feasibility Study of DSP-Enabled Cancellation of Random Phase Noise Caused by Optical Coherent Transceivers in Next-Generation Optical Access Systems. IEICE Transactions on Communications, 2016, E99.B, 2574-2582.	0.7	1
22	Parallelization of cipher algorithm on CPU/GPU for real-time software-defined access network. , 2015, , .		12
23	DSP-based optical access approaches for enhancing NG-PON2 systems. , 2013, 51, 58-64.		59
24	VCSEL-based Coherent Detection of 10-Gbit/s QPSK Signals Using Digital Phase Noise Cancellation for Future Optical Access Systems. , 2010, , .		8