Sang-Yuep Kim

List of Publications by Year
in descending order

24 papers	316 citations	1040056 9 h-index	996975 15 g-index
24 all docs	24 docs citations	24 times ranked	148 citing authors

#	Article	IF	Citations
1	DSP-based optical access approaches for enhancing NG-PON2 systems. , 2013, 51, 58-64.		59
2	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
3	Demonstration of 10-Gbps Real-Time Reed–Solomon Decoding Using GPU Direct Transfer and Kernel Scheduling for Flexible Access Systems. Journal of Lightwave Technology, 2018, 36, 1875-1881.	4.6	28
4	Software Implementation of 10G-EPON Upstream Physical-Layer Processing for Flexible Access Systems. Journal of Lightwave Technology, 2019, 37, 1631-1637.	4.6	23
5	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
6	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
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	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
9	Parallelization of cipher algorithm on CPU/GPU for real-time software-defined access network. , 2015, , .		12
10	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
11	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
12	Real-Time Demonstration of PHY Processing on CPU for Programmable Optical Access Systems. , 2016, , .		9
13	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
14	Motion Control System With Time-Varying Delay Compensation for Access Edge Computing. IEEE Access, 2021, 9, 90669-90676.	4.2	8
15	VCSEL-based Coherent Detection of 10-Gbit/s QPSK Signals Using Digital Phase Noise Cancellation for Future Optical Access Systems. , 2010, , .		8
16	Coherent Receiver DSP Implemented on a General-Purpose Server for Full Software-Defined Optical Access. , 2018, , .		8
17	Low-Latency PON PHY Implementation on GPUs for Fully Software-Defined Access Networks. IEEE Network, 2022, 36, 108-114.	6.9	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 Coherent 10-Gb/s QPSK Reception Implemented on a Commodity Server. , 2021, , .		6
20	Demonstration of Adaptive Image Transmission That Meets Various Application Requirements in 10G-EPON. IEEE Access, 2020, 8, 186433-186440.	4.2	5
21	Exploiting general purpose hardware in optical access systems [Invited]. Journal of Optical Communications and Networking, 2020, 12, A182.	4.8	4
22	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
23	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
24	PON Virtualization Including PHY Softwarization. , 2022, , .		1