

S J B Yoo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

2,174
citations

23
h-index

46
g-index

93
ext. papers

2,577
ext. citations

4
avg, IF

4.42
L-index

#	Paper	IF	Citations
65	Scalable AWGR-based All-to-All Optical Interconnects with 2.5D/3D Integrated Optical Interposers 2018,		5
64	Uniform emission, constant wavevector silicon grating surface emitter for beam steering with ultra-sharp instantaneous field-of-view. <i>Optics Express</i> , 2017 , 25, 19655-19661	3.3	24
63	Elastic Optical Networking by Dynamic Optical Arbitrary Waveform Generation and Measurement. <i>Journal of Optical Communications and Networking</i> , 2016 , 8, A171	4.1	9
62	Demonstration of Cooperative Resource Allocation in an OpenFlow-Controlled Multidomain and Multinational SD-EON Testbed. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1508-1514	4	88
61	3D elastic optical networking in the temporal, spectral, and spatial domains 2015 , 53, 79-87		46
60	Polarization Diversified Integrated Circuits for Orbital Angular Momentum Multiplexing. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1056-1059	2.2	12
59	Hybrid 3D Photonic Integrated Circuit for Optical Phased Array Beam Steering 2015,		4
58	OpenFlow-Assisted Online Defragmentation in Single-/Multi-Domain Software-Defined Elastic Optical Networks [Invited]. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, A7	4.1	48
57	Multi-domain cognitive optical software defined networks with market-driven brokers 2014,		13
56	Demonstration of scalable, flat, and high-throughput data center architecture based on arrayed waveguide grating routers 2014,		2
55	Experimental demonstration of dynamic flexible bandwidth optical data center network with all-to-all interconnectivity 2014,		9
54	Free-space coherent optical communication with orbital angular, momentum multiplexing/demultiplexing using a hybrid 3D photonic integrated circuit. <i>Optics Express</i> , 2014 , 22, 145-156	3.3	112
53	A novel SDN enabled hybrid optical packet/circuit switched data centre network: The LIGHTNESS approach 2014,		9
52	Demonstration of Orbital Angular Momentum State Conversion using Two Hybrid 3D Photonic Integrated Circuits 2014,		6
51	Adaptive Spectrum Control and Management in Elastic Optical Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 39-48	14.2	16
50	Elastic optical networking and low-latency high-radix optical switches for future cloud computing 2013,		8
49	An All-Optical Token Technique Enabling a Fully-Distributed Control Plane in AWGR-Based Optical Interconnects. <i>Journal of Lightwave Technology</i> , 2013 , 31, 414-422	4	11

48	Outage constrained joint precoding for D2D underlay cellular networks 2013 ,			1
47	Integrated Optical Orbital Angular Momentum Multiplexing Device using 3-D Waveguides and a Silica PLC 2013 ,			3
46	Spectral and Spatial 2D Fragmentation-Aware Routing and Spectrum Assignment Algorithms in Elastic Optical Networks [Invited]. <i>Journal of Optical Communications and Networking</i> , 2013 , 5, A100	4.1		185
45	LIONS: An AWGR-Based Low-Latency Optical Switch for High-Performance Computing and Data Centers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 3600409-3600409	3.8		94
44	Experimental Demonstration of Adaptive Combinational QoT Degradation Restoration in Elastic Optical Networks. <i>Journal of Lightwave Technology</i> , 2013 , 31, 664-671	4		12
43	Scalable and Distributed Contention Resolution in AWGR-Based Data Center Switches Using RSOA-Based Optical Mutual Exclusion. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 3600111-3600111	3.8		16
42	Frequency-to-Time-Assisted Interferometry for Full-Field Optical Waveform Measurements With Picosecond Resolution and Microsecond Record Lengths. <i>IEEE Photonics Journal</i> , 2012 , 4, 748-758	1.8		7
41	Rapid High-Precision In Situ Wavelength Calibration for Tunable Lasers Using an Athermal AWG and a PD Array. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 70-72	2.2		5
40	Dynamic on-demand defragmentation in flexible bandwidth elastic optical networks. <i>Optics Express</i> , 2012 , 20, 1798-804	3.3		70
39	Full-field technique for measuring the spectral evolution of reconfigurable photonic filters. <i>Optics Letters</i> , 2012 , 37, 341-3	3		1
38	Demonstration of free space coherent optical communication using integrated silicon photonic orbital angular momentum devices. <i>Optics Express</i> , 2012 , 20, 9396-402	3.3		173
37	Fully Reconfigurable Silicon Photonic Lattice Filters With Four Cascaded Unit Cells. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 42-44	2.2		22
36	Experimental demonstration of flexible bandwidth networking with real-time impairment awareness. <i>Optics Express</i> , 2011 , 19, B736-45	3.3		23
35	Monolithic InP 100-Channel \times 10-GHz Device for Optical Arbitrary Waveform Generation. <i>IEEE Photonics Journal</i> , 2011 , 3, 975-985	1.8		29
34	Demonstration of a Flexible Bandwidth Optical Transmitter/Receiver System Scalable to Terahertz Bandwidths. <i>IEEE Photonics Journal</i> , 2011 , 3, 1013-1022	1.8		22
33	The First Testbed Demonstration of a Flexible Bandwidth Network with a Real-Time Adaptive Control Plane 2011 ,			27
32	Real-time full-field arbitrary optical waveform measurement. <i>Nature Photonics</i> , 2010 , 4, 248-254	33.9		103
31	Fully reconfigurable silicon CMOS photonic lattice filters 2010 ,			1

30	Optical Arbitrary Waveform Generation-Based Packet Generation and All-Optical Separation for Optical-Label Switching. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 715-717	2.2	12
29	400-Gb/s Modulation-Format-Independent Single-Channel Transmission With Chromatic Dispersion Precompensation Based on OAWG. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 905-907	2.2	5
28	Dynamic optical arbitrary waveform generation and measurement. <i>Optics Express</i> , 2010 , 18, 18655-70	3.3	37
27	Demonstration of high-fidelity dynamic optical arbitrary waveform generation. <i>Optics Express</i> , 2010 , 18, 22988-95	3.3	34
26	Silicon microring resonator-based reconfigurable optical lattice filter for on-chip optical signal processing 2009 ,		2
25	Towards athermal optically-interconnected computing system using slotted silicon microring resonators and RF-photon comb generation. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 1101-1109	2.6	19
24	Design and evaluation of an arbitration-free passive optical crossbar for on-chip interconnection networks. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 1111-1118	2.6	23
23	Near quantum-limited, single-shot coherent arbitrary optical waveform measurements. <i>Optics Express</i> , 2009 , 17, 12332-44	3.3	18
22	Athermalizing and Trimming of Slotted Silicon Microring Resonators With UV-Sensitive PMMA Upper-Cladding. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1175-1177	2.2	73
21	Simultaneous multi-format RZ-OOK and RZ-DPSK optical packet switching based on tunable four-wave mixing 2009 ,		1
20	Continuously Tunable, Wavelength-Selective Buffering in Optical Packet Switching Networks. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 1030-1032	2.2	27
19	Rapid updating of optical arbitrary waveforms via time-domain multiplexing. <i>Optics Letters</i> , 2008 , 33, 1068-70	3	18
18	Compact 10 GHz loopback arrayed-waveguide grating for high-fidelity optical arbitrary waveform generation. <i>Optics Letters</i> , 2008 , 33, 1714-6	3	35
17	Jitter and Amplitude Noise Accumulations in Cascaded All-Optical Regenerators. <i>Journal of Lightwave Technology</i> , 2008 , 26, 1640-1652	4	35
16	Active arrayed-waveguide grating with amplitude and phase control for arbitrary filter generation and high-order dispersion compensation 2008 ,		4
15	Dynamic phase-error compensation for high-resolution InP arrayed-waveguide grating using electro-optic effect 2008 ,		1
14	InP-Based Arrayed-Waveguide Grating with a Channel Spacing of 10 GHz 2008 ,		2
13	Interactive Informatics on Internet Infrastructure 2007 ,		1

12	Performance Comparison of Gated and Nongated All-Optical Thresholding Detection Schemes Using Mach-Zehnder Interferometers in SPECTS O-CDMA. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1054-1056	2.2	2
11	3.5-THz Wide, 175 Mode Optical Comb Source 2007 ,		9
10	Determination of 20 GHz InP AWG Phase Errors by Measurement of AWG Pulse Train. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		1
9	Security Enhancement of SPECTS O-CDMA Through Concealment Against Upstream DPSK Eavesdropping. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2799-2806	4	7
8	XFROG characterization of a 10 GHz colliding-pulse mode-locked laser 2006 ,		1
7	Error-free 1,001-hop Cascaded Operation of an Optical-label Switching Router with Optical 3R Regeneration 2006 ,		2
6	Experimental Investigation on Using Phase Mask in Spectral-Phase-Encoded O-CDMA for Security Enhancement 2006 ,		1
5	All-Optical Label Swapping, Clock Recovery, and 3R Regeneration in 101-Hop Cascaded Optical-Label Switching Router Networks. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2629-2631	2.2	8
4	All-optical packet-switched networks: a study of contention-resolution schemes in an irregular mesh network with variable-sized packets 2000 ,		31
3	Wavelength conversion by difference frequency generation in AlGaAs waveguides with periodic domain inversion achieved by wafer bonding. <i>Applied Physics Letters</i> , 1996 , 68, 2609-2611	3.4	145
2	Second-order susceptibility in asymmetric quantum wells and its control by proton bombardment. <i>Applied Physics Letters</i> , 1991 , 58, 1724-1726	3.4	81
1	Observation of extremely large quadratic susceptibility at 9.6-10.8 microm in electric-field-biased AlGaAs quantum wells. <i>Physical Review Letters</i> , 1989 , 62, 1041-1044	7.4	318