Shu Namiki

List of Publications by Year
in descending order

347 papers	4,257 citations	147801 31 h-index	155660 55 g-index
348 all docs	348 docs citations	348 times ranked	2039 citing authors

#	Article	IF	Citations
1	Low distortion amplification of 16 and 64QAM signals using SOA. Optics Communications, 2022, 502, 127331.	2.1	2
2	Scalability of integer linear programming path computation for functional block-based disaggregation supporting a flexible grid mechanism [Invited]. Journal of Optical Communications and Networking, 2022, 14, A134.	4.8	4
3	Functional block-based disaggregation approach for optical network automation supporting diverse node structures. , 2022, , .		0
4	Scalable and Fast Optical Circuit Switch Exploiting Colorless Coherent Detection. , 2022, , .		1
5	Recent Advances in Large-scale Optical Switches Based on Silicon Photonics. , 2022, , .		3
6	Brillouin Amplification for Enhanced Coherent Communication Applications. Journal of Lightwave Technology, 2022, 40, 3223-3242.	4.6	3
7	On-chip bacterial foraging training in silicon photonic circuits for projection-enabled nonlinear classification. Nature Communications, 2022, 13, .	12.8	15
8	Strictly Non-Blocking 8 Ã— 8 Silicon Photonics Switch Operating in the O-Band. Journal of Lightwave Technology, 2021, 39, 1096-1101.	4.6	6
9	Automatic Mapping Between Real Hardware Composition and ROADM Model for Agile Node Updates. Journal of Lightwave Technology, 2021, 39, 821-832.	4.6	5
10	Pilot Tone Power Limits of Brillouin Amplified Carrier Recovery for Optical Communications. Journal of Lightwave Technology, 2021, 39, 960-976.	4.6	6
11	Scalable and Fast Optical Circuit Switch Based on Colorless Coherent Detection: Design Principle and Experimental Demonstration. Journal of Lightwave Technology, 2021, 39, 2263-2274.	4.6	11
12	Compensation of SOA-induced nonlinear phase distortions by optical phase conjugation. Optics Express, 2021, 29, 12252.	3.4	5
13	Silicon Based 1 Ã— M Wavelength Selective Switch Using Arrayed Waveguide Gratings With Fold-Back Waveguides. Journal of Lightwave Technology, 2021, 39, 2413-2420.	4.6	5
14	Frequency-Packed Multiband-Coherent Transceiver With Symbol Rate-Adaptive Nyquist WDM Signals. IEEE Photonics Technology Letters, 2021, 33, 1205-1208.	2.5	4
15	Large-Scale Optical Switches Based on Silicon Photonics. , 2021, , .		2
16	Fully-Loaded Operation of 0.29-pJ/bit Wall-plug Efficiency, 81.9-Tb/s Throughput 32 Ã— 32 Silicon Photonics Switch. , 2021, , .		4
17	Fast Optical Switch Utilizing Coherent Detection Enabled by Cooperative Filtering of Transmission Signal and Local Oscillator (LO) Wavelength Sourced from an LO Bank. , 2021, , .		2
18	Design and verification of a LO bank enabled by fixed-wavelength lasers and fast tunable silicon ring filters for creating large scale optical switches. Optics Express, 2021, 29, 39930.	3.4	8

#	Article	IF	Citations
19	Integration and Control of Heterogeneous Telecom and Data Center Optical Networks Aided by FBD and TAPI for Enhancing Large-scale Optical Path Services and Network Resiliency. , 2021, , .		1
20	Enhanced Coherent Communications with Brillouin Amplifiers. , 2021, , .		0
21	Experimental Demonstration of XOR Separation by On-chip Training a Linear Silicon Photonic Circuit. , 2021, , .		3
22	Nonduplicate Polarization-Diversity 32 Ã— 32 Silicon Photonics Switch Based on a SiN/Si Double-Layer Platform. Journal of Lightwave Technology, 2020, 38, 226-232.	4.6	36
23	Low-Loss, Low-Crosstalk, and Large-Scale Optical Switch Based on Silicon Photonics. Journal of Lightwave Technology, 2020, 38, 233-239.	4.6	37
24	Wavelength-Division Demultiplexing Enhanced by Silicon-Photonic Tunable Filters in Ultra-Wideband Optical-Path Networks. Journal of Lightwave Technology, 2020, 38, 1002-1009.	4.6	13
25	Brillouin Amplifier Noise Characterization by a Coherent Receiver and Digital Signal Processing. Journal of Lightwave Technology, 2020, 38, 4221-4236.	4.6	9
26	Enhanced Carrier to Noise Ratio by Brillouin Amplification for Optical Communications. Journal of Lightwave Technology, 2020, 38, 319-331.	4.6	21
27	Guest EditorialUltra Wideband WDM Systems. Journal of Lightwave Technology, 2020, 38, 998-1001.	4.6	3
28	Large-scale silicon photonics switch based on 45-nm CMOS technology. Optics Communications, 2020, 466, 125677.	2.1	22
29	Gain-Integrated 8 Ã— 8 Silicon Photonics Multicast Switch With On-Chip 2 Ã— 4-ch. SOAs. Journal of Lightwave Technology, 2020, 38, 2930-2937.	4.6	6
30	Simple and fully CMOS-compatible low-loss fiber coupling structure for a silicon photonics platform. Optics Letters, 2020, 45, 2095.	3.3	22
31	Large-Scale and Fast Optical Circuit Switch for Coherent Detection Using Tunable Local Oscillators Formed with Wavelength Bank and Widely-Tunable Silicon Ring Filters. , 2020, , .		2
32	First Demonstration of Automated Updates of Disaggregate Blades in Multi-Domain/Layer Optical Path Network. , 2020, , .		1
33	O-Band Strictly Non-Blocking 8 Ã— 8 Silicon-Photonics Switch. , 2020, , .		1
34	Scalable and Fast Optical Circuit Switch Created with Silicon-Photonic Tunable-Filter-based Local Oscillator Bank and Colorless Coherent Detection. , 2020, , .		2
35	Narrowband and Low-Noise Brillouin Amplification for Coherent Communications. , 2020, , .		0
36	Demonstration of 8-Step Single-Photon Quantum Walk using 32 x 32 Reconfigurable Silicon Photonics Switch. , 2020, , .		1

#	Article	IF	Citations
37	Silicon-photonic matrix switches and control technologies to accelerate switching speed. , 2020, , .		0
38	Strictly Non-Blocking Silicon Photonics Switches. IEICE Transactions on Electronics, 2020, E103.C, 627-634.	0.6	1
39	Baud-Rate-Adaptive OLT Integrated-Coherent Transceiver for Nyquist Spectral Shaped/Channel Spaced WDM-PON. , 2020, , .		3
40	Optical Network Resource Management Supporting Physical Layer Reconfiguration. Journal of Lightwave Technology, 2019, 37, 5442-5454.	4.6	8
41	A 300-mm-wafer silicon photonics technology for advanced information systems. , 2019, , .		0
42	Low-Crosstalk Bandwidth Expansion in $32imes 32$ Silicon Optical Switch with Port-Exchanged Mach-Zehnder Switch. , 2019, , .		2
43	Characteristics of 1Ã—2 Silicon Wavelength Selective Switch Using Arrayed - Waveguide Gratings with Fold-Back Waveguides. , 2019, , .		0
44	Low-Insertion-Loss and Power-Efficient 32 Ã— 32 Silicon Photonics Switch With Extremely High-Î” Silica PLC Connector. Journal of Lightwave Technology, 2019, 37, 116-122.	4.6	102
45	SOA-Integrated Silicon Photonics Switch and Its Lossless Multistage Transmission of High-Capacity WDM Signals. Journal of Lightwave Technology, 2019, 37, 123-130.	4.6	23
46	High-Capacity Multi-Stage Operation of Polarization-Diversity Silicon Photonics 8 Ã— 8 Optical Switch. Journal of Lightwave Technology, 2019, 37, 131-137.	4.6	11
47	Ultra-compact silicon photonics switch with high-density thermo-optic heaters. Optics Express, 2019, 27, 10332.	3.4	18
48	SiN/Si double-layer platform for ultralow-crosstalk multiport optical switches. Optics Express, 2019, 27, 21130.	3.4	22
49	Polarization-Diversity 32 x 32 Si Photonics Switch with Non-Duplicate Diversity Circuit in Double-Layer Platform. , 2019, , .		4
50	Stable operation of silicon photonic switches in field-deployed optical path network. IEICE Electronics Express, 2019, 16, 20181058-20181058.	0.8	0
51	Carrier to Noise Ratio Improvement by Brillouin Amplification for 64-QAM Coherent Communications. , 2019, , .		1
52	Low-Loss, Low-Crosstalk, and Large-Scale Silicon Photonics Switch. , 2019, , .		2
53	Submilisecond Control/Monitoring of Disaggregated Optical Node through a Direct Memory Access based Architecture. , 2019, , .		1
54	Toward Automatized Handling of Future Agile Networks Employing Various Optical Switching Functionalities. , 2019, , .		0

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55	Guest Editorial OFC 2017 Special Issue. Journal of Lightwave Technology, 2018, 36, 3-5.	4.6	0
56	Low Noise Frequency Combs for Higher Order QAM Formats Through Cross-Phase Modulation of Modelocked Laser Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-12.	2.9	11
57	Fast Optical Circuit Switch Using Monolithically Integrated Silicon-Photonic Space Switch and Wavelength-Tuneable Filter. , 2018, , .		1
58	Applications of Low Noise Brillouin Amplifiers for 64QAM Coherent Communications. , 2018, , .		0
59	Switching Devices and Systems Based on Advanced Silicon Photonics. , 2018, , .		0
60	Efficient Path Calculation Scheme for Advance Reservation of Hierarchical Optical Path Network Using Continuous Variables to Represent Switch States. , 2018, , .		2
61	Multi-granular Optical Path Computations based on Physical Network Topology Descriptions. , 2018, , .		3
62	Ultra-Compact Silicon Photonics Switch with Ultra-Dense Thermo-Optic MZI Matrix and Multi-Layer Wiring. , 2018, , .		1
63	64-QAM Signal Carrier Recovery from Low Power Pilot Tone by Narrowband Brillouin Amplification before Coherent Detection. , 2018, , .		2
64	Noise Characterization of Brillouin Amplified Narrowband Carriers for Coherent Communications. , 2018, , .		4
65	A Large-Scale Optical Circuit Switch Using Fast Wavelength-Tunable and Bandwidth-Variable Filters. IEEE Photonics Technology Letters, 2018, 30, 1439-1442.	2.5	11
66	Analysis and Demonstration of Network Utilization Improvement Through Format-Agnostic Multi-Channel Wavelength Converters. Journal of Optical Communications and Networking, 2018, 10, A165.	4.8	17
67	Integrated silicon photonic wavelength-selective switch using wavefront control waveguides. Optics Express, 2018, 26, 13573.	3.4	15
68	Silicon photonics based 1 Ã— 2 wavelength selective switch using fold-back arrayed-waveguide gratings. IEICE Electronics Express, 2018, 15, 20180532-20180532.	0.8	6
69	Silicon Photonic Multiport Optical Switch and Its Control Electronics. , 2018, , .		0
70	Fast Frequency Tuning of Silicon-Photonic Thermo-optic MZI Filters using â€œTurbo Pulseâ€•Method. , 2018, , .		9
71	Low Insertion Loss and Power Efficient 32 Ã— 32 Silicon Photonics Switch with Extremely-High-Î” PLC Connector. , 2018, , .		12
72	Fully-Loaded and Cascaded Operation of Polarization-Diversity 8 Ã— 8 Silicon Photonics Optical Switch with 11-ch Ã— 32/44-Gbaud DP-16QAM WDM Transmission. , 2018, , .		2

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73	Dynamic Routing of Y-00 Quantum Stream Cipher in Field-Deployed Dynamic Optical Path Network. , 2018, , .		9
74	Next-Generation ROADM Employing Bandwidth-Adaptive Silicon-Photonic Filters for Flexible Drop Operation. , 2018, , .		2
75	Topology Description Generation and Path Computation Framework for Dynamic Optical Path Network with Heterogeneous Switches. , 2018, , .		5
76	1,024Ã—1,024 Optical Circuit Switch Using Wavelength-Tunable and Bandwidth-Variable Silicon Photonic Filter. , 2018, , .		0
77	Toward exa-scale optical circuit switch interconnect networks for future datacenter/HPC. , 2017, , .		6
78	Multi-Channel Cascadable Parametric Signal Processing for Wavelength Conversion and Nonlinearity Compensation. Journal of Lightwave Technology, 2017, 35, 815-823.	4.6	18
79	Silicon photonics C-band tunable filter for large-scale optical circuit switches. , 2017, , .		3
80	Silicon photonic bandwidth-tunable filter based on 16-tap finite impulse response. , 2017, , .		1
81	An efficient node architecture for flexibly sharing all-optical wavelength converters. , 2017, , .		0
82	2.5-dB loss, 100-nm Operating Bandwidth, and Low Power Consumption Strictly-Non-Blocking 8 Ã— 8 Si Switch. , 2017, , .		11
83	Ultralow-crosstalk and broadband multi-port optical switch using SiN/Si double-layer platform. , 2017, , .		5
84	On-chip Brillouin processing for coherent optical communications. , 2017, , .		1
85	Demonstration of real-time path monitoring in optical switches. , 2017, , .		0
86	Broadband silicon photonics 8 Ã— 8 switch based on double-Machâ€“Zehnder element switches. Optics Express, 2017, 25, 7538.	3.4	62
87	Non-duplicate polarization-diversity 8 Ã— 8 Si-wire PILOSS switch integrated with polarization splitter-rotators. Optics Express, 2017, 25, 10885.	3.4	31
88	Low noise frequency comb carriers for 64-QAM via a Brillouin comb amplifier. Optics Express, 2017, 25, 17847.	3.4	42
89	On-chip Brillouin purification for frequency comb-based coherent optical communications. Optics Letters, 2017, 42, 5074.	3.3	30
90	Fast Optical Circuit Switch for Intra-Datacenter Networking. IEICE Transactions on Communications, 2017, E100.B, 1740-1746.	0.7	4

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91	Regeneration of Noise Limited Frequency Comb Lines for 64-QAM by Brillouin Gain Seeded via SSB Modulation. , 2017, , .		2
92	Design and Demonstration of 30-nm Tunable Guard-band-less All-Optical Wavelength Converter for WDM Signals. , 2017, , .		7
93	Network Utilization Improvement Using Format-agnostic Multi-channel Wavelength Converters. , 2017, , .		2
94	Silicon-Photonics Polarization-Insensitive Broadband Strictly-Non-Blocking 8 Ã— 8 Blade Switch. , 2017, , .		1
95	Accelerating Switching Speed of Thermo-optic MZI Silicon-Photonic Switches with â€œTurbo Pulseâ€•in PWM Control. , 2017, , .		21
96	Fast and Accurate Automatic Calibration of a 32 Ã— 32 Silicon Photonic Strictly-Non-Blocking Switch. , 2017, , .		9
97	Fully Integrated Non-Duplicate Polarization-Diversity 8 Ã— 8 Si-Wire PILOSS Switch. , 2017, , .		1
98	Challenges and Impact of Dynamic Optical-Layer Switching â€“Ten years of VICTORIES and Beyond â€“. , 2017, , .		3
99	Real-time Path Monitoring of Optical Nodes. , 2017, , .		1
100	Multi-Line Regeneration of Noise Limited Frequency Combs by Brillouin Amplification via a Self-Seeded Dispersed Pump. , 2017, , .		0
101	A 300-mm-wafer silicon photonics technology for ultra-low-energy optical network systems. , 2017, , .		6
102	1Ã—2 Silicon Wavelength Selective Switch Using Fold Back Arrayed-Waveguide Gratings. , 2017, , .		4
103	Performance-assured Network Function Virtualization for Open and Disaggregated Optical Transport Systems. , 2017, , .		0
104	Demonstration of Fast Cooperative Operations in Disaggregated Optical Node Systems. , 2017, , .		3
105	Novel PILOSS Port Assignment for Compact Polarization-Diversity Si-Wire Optical Switch. , 2016, , .		0
106	Raman scattering in hydrogenated amorphous silicon waveguides at telecommunication wavelengths. , 2016, , .		0
107	Experimental demonstration of 2,160Ã—2,160 optical circuit switch for intra-datacenter networking. , 2016, , .		4
108	Guest Editorial OFC 2015 Special Issue. Journal of Lightwave Technology, 2016, 34, 3-5.	4.6	0

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109	On the Cascadability of All-Optical Wavelength Converter for High-Order QAM Formats. Journal of Lightwave Technology, 2016, 34, 3194-3205.	4.6	23
110	Distributed-like optical path switch control approach for interconnect networks. , 2016, , .		2
111	Novel polarization diversity without switch duplication of a Si-wire PILOSS optical switch. Optics Express, 2016, 24, 6861.	3.4	15
112	Optical network technologies for HPC: computer-architects point of view. IEICE Electronics Express, 2016, 13, 20152007-20152007.	0.8	16
113	Toward exa-scale photonic switch system for the future datacenter (invited paper). , 2016, , .		1
114	Silicon optical switch monolithically integrated with driver electronics and its power efficient driving. , 2016, , .		0
115	Off-Chip Polarization-Diversity $4 ,, imes ,, 4$ Si-Wire Optical Switch With Digital DGD Compensation. IEEE Photonics Technology Letters, 2016, 28, 457-460.	2.5	17
116	Experimental Investigation of Gain Offset Behavior of Feedforward-Controlled WDM AGC EDFA Under Various Dynamic Wavelength Allocations. IEEE Photonics Journal, 2016, 8, 1-13.	2.0	18
117	Polarization-Rotator-Free Polarization-Diversity 4 4 Si-Wire Optical Switch. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	8
118	Demonstration of 720Ã—720 optical fast circuit switch for intra-datacenter networks. , 2016, , .		2
119	Optimized WDM Transmission Impairment Mitigation by Multiple Phase Conjugations. Journal of Lightwave Technology, 2016, 34, 431-440.	4.6	35
120	Wavelength Translation of Dual-Polarization Phase-Modulated Nyquist OTDM at Terabit/s. Journal of Lightwave Technology, 2016, 34, 633-642.	4.6	7
121	Signal-transparent wavelength conversion and light-speed back propagation through fiber. , 2016, , .		7
122	Multi-port Optical Switch Based on Silicon Photonics. , 2016, , .		1
123	Low Noise Frequency Comb for 64 QAM Based on Output Phase Stabilization of an Actively Mode-Locked Fiber Laser. , 2016, , .		1
124	Ultra-compact 32 Ã— 32 strictly-non-blocking Si-wire PILOSS switch. , 2016, , .		0
125	Strictly Non-Blocking Silicon Photonics Switches. , 2016, , .		1
126	Autonomously controlled all-optical signal conditioning for dynamic optical path networks. , 2015, , .		0

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127	In-band OSNR monitor based on 3 × 3 Si-wire MMI coupler. , 2015, , .		2
128	Doubled transmission reach for DP-64QAM signal over field-deployed legacy fiber systems enabled by MSSI. , 2015, , .		6
129	Signal phase regeneration through multiple wave coherent addition enabled by hybrid optical phase squeezer. Optics Express, 2015, 23, 27920.	3.4	7
130	Evaluation of the phase error in Si-wire arrayed-waveguide gratings fabricated by ArF-immersion photolithography. IEICE Electronics Express, 2015, 12, 20150019-20150019.	0.8	3
131	Quadrature Squeezing and IQ De-Multiplexing of QPSK Signals by Sideband-Assisted Dual-Pump Phase Sensitive Amplifiers. IEICE Transactions on Communications, 2015, E98.B, 2227-2237.	0.7	4
132	Dynamic Parametric Dispersion Compensation Using FPGA Pump Controller and Dispersion Monitor. , 2015, , .		4
133	First Demonstration of Wavelength Translation for 1.376-Tbit/s DP-QPSK Nyquist OTDM Signal. , 2015, , .		2
134	Field transmission of uncompressed ultra-high definition video signals through dynamic optical path network. , 2015, , .		1
135	Dispersion Pre-Compensation for PAM Transmission System Using 1-sample/symbol DAC and IQ Modulator. , 2015, , .		3
136	Field transmission of an uncompressed 8K ultra-high definition television optical signal with forward error correction codes. , 2015, , .		0
137	4Ã—4 Si-wire optical path switch with off-chip polarization diversity. , 2015, , .		2
138	Wavelength conversion of PDM 16-QAM signals by four wave mixing with a co-phase dithered pump. , 2015, , .		0
139	Power-efficient Gray-scale Control of Silicon Thermo-optic Phase Shifters by Pulse Width Modulation Using Monolithically Integrated MOSFET. , 2015, , .		2
140	Polarization-diversity 4 × 4 Si-wire optical switch. , 2015, , .		2
141	Highly cascadable all-optical wavelength conversions of DP-QPSK, DP-16QAM, and DP-64QAM signals. , 2015, , .		3
142	First demonstration of wavelength conversion of DP-64QAM signal using an improved counter-dithering pump scheme. , 2015, , .		1
143	Linearizing WDM transmission systems through optical phase conjugation. , 2015, , .		0
144	Implementing ideal nonlinear compensation through nonlinearity. , 2015, , .		1

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145	Phase noise squeezing without PM-to-AM conversion by hybrid optical phase squeezer. , 2015, , .		0
146	What is the true value of dynamic optical path switching?. , 2015, , .		1
147	Autonomous Parametric Tunable Dispersion Compensation for Dynamic Optical Switching. IEEE Photonics Technology Letters, 2015, 27, 1589-1592.	2.5	1
148	Phase regeneration of QPSK signals by hybrid optical phase squeezer. , 2015, , .		2
149	Silicon photonics based switching technology for telecom, datacom and computercom. , 2015, , .		2
150	Extremely high-capacity, low-energy, and low latency optical networking for future infrastructure. , 2015, , .		1
151	Multi-tone counter dithering of terabit/s polarization multiplexed signals for enhanced FWM with a single pump. , 2015, , .		4
152	A 200-GHz spacing, 17-channel, 1×2 wavelength selective switch using a silicon arrayed-waveguide grating with loopback. , 2015, , .		3
153	Optical Nyquist Filtering for Elastic OTDM Signals: Fundamentals and Demonstrations. Journal of Lightwave Technology, 2015, 33, 1014-1026.	4.6	12
154	Ultra-high-extinction-ratio 2 Ã— 2 silicon optical switch with variable splitter. Optics Express, 2015, 23, 9086.	3.4	92
155	Ultra-compact 32 Ã— 32 strictly-non-blocking Si-wire optical switch with fan-out LGA interposer. Optics Express, 2015, 23, 17599.	3.4	161
156	Unifying Top-Down and Bottom-Up Approaches to Evaluate Network Energy Consumption. Journal of Lightwave Technology, 2015, 33, 4395-4405.	4.6	14
157	Low Noise Degenerate FWM of 12Ã—100 Gb/s DP-QPSK Signals with Counter-Dithering of Pump and Idler Waves. , 2015, , .		2
158	32Ã—32 Strictly Non-Blocking Si-Wire Optical Switch on Ultra-Small Die of 11Ã—25 mm2. , 2015, , .		17
159	Transmission Optimized Impairment Mitigation by 12 Stage Phase Conjugation of WDM 24Ã—48 Gb/s DP-QPSK Signals. , 2015, , .		5
160	Approaching Complete Cancellation of Nonlinearity in WDM Transmission Through Optical Phase Conjugation. , 2015, , .		0
161	Broadband Counter-Phase Dithering of Multi-Terabit/s DP-QPSK Signals for Low Noise FWM with a Single CW Pump. , 2015, , .		2
162	Hybrid Optical Phase Quantization for All-optical Signal Processing. , 2015, , .		0

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163	Signal power asymmetry tolerance of an optical phase conjugation-based nonlinear compensation system. , 2014, , .		9
164	Quadrature squeezing of phase modulated signals. , 2014, , .		0
165	All-optical Nyquist filtering for elastic OTDM signals and their spectral defragmentation for inter-datacenter networks. , 2014, , .		3
166	Monolithically integrated MOSFET for controlling silicon optical switch: Is an on-chip transistor capable of driving a thermo-optic phase shifter?. , 2014, , .		0
167	Dynamic optical path network: A network beyond SDN and SDM. , 2014, , .		0
168	Nearly-Ideal Optical Phase Conjugation based Nonlinear Compensation System. , 2014, , .		20
169	First demonstration of ultra-low-energy hierarchical multi-granular optical path network dynamically controlled through NSI-CS for video related applications. , 2014, , .		18
170	Optical-Time-Division Demultiplexing of 172 Gb/s to 43 Gb/s in a-Si:H Waveguides. IEEE Photonics Technology Letters, 2014, 26, 426-429.	2.5	4
171	Compact 2 Ã— 2 polarization-diversity Si-wire switch. Optics Express, 2014, 22, 29818.	3.4	21
172	Ultra-compact 8 Ã— 8 strictly-non-blocking Si-wire PILOSS switch. Optics Express, 2014, 22, 3887.	3.4	105
173	Phase regeneration of phase encoded signals by hybrid optical phase squeezer. Optics Express, 2014, 22, 12177.	3.4	17
174	Sideband-Assisted Dual-Pump Phase Sensitive Amplifiers with Enhanced Phase Sensitivity. , 2014, , .		0
175	All-optical Nyquist Filtering for elastic OTDM signals and their spectral defragmentation through parametric processes. , 2014, , .		0
176	Tunable Optical Parametric Regenerator Assessment in a 43 Gb/s RZ-DPSK Signal Transmission Link. IEEE Photonics Technology Letters, 2014, 26, 629-632.	2.5	3
177	Demonstration of a 3-dB directional coupler with enhanced robustness to gap variations for silicon wire waveguides. Optics Express, 2014, 22, 2051.	3.4	21
178	Development of highly cascadable wavelength converter for all-optical networks. , 2014, , .		2
179	Guard-Band-Less and Polarization-Insensitive Tunable Wavelength Converter for Phase-Modulated Signals: Demonstration and Signal Quality Analyses. Journal of Lightwave Technology, 2014, 32, 1981-1990.	4.6	26
180	Carrier recovery for M-QAM signals based on a block estimation process with Kalman filter. Optics Express, 2014, 22, 15376.	3.4	63

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181	Performance of nonlinear amplitude regenerators in optical networks. , 2014, , .		0
182	Simultaneous Phase Regeneration of CoWDM BPSK Signals by Hybrid Optical Phase Squeezer. , 2014, , .		0
183	Multiport optical switches integrated on Si photonics platform. IEICE Electronics Express, 2014, 11, 20142011-20142011.	0.8	4
184	Counter-Dithering Pump Scheme for Cascaded Degenerate FWM Based Wavelength Converter. , 2014, , .		9
185	DSP-Implementable Block Processing of Carrier-Phase Recovery for M-QAM Signals. , 2014, , .		0
186	Wavelength Assignment Dependency of AGC EDFA Gain Offset under Dynamic Optical Circuit Switching. , 2014, , .		6
187	A Proposal of Cyclic Sleep Control Technique for Backup Resources in ROADM Systems to Reduce Power Consumption of Photonic Network. IEICE Transactions on Communications, 2014, E97.B, 2698-2705.	0.7	0
188	Ultra-Compact 8 Ã— 8 Strictly Non-Blocking PILOSS Switch Based on Si-Wire. , 2014, , .		2
189	Towards large-capacity, energy-efficient, and sustainable communication networks. Synthesiology, 2014, 7, 30-43.	0.2	1
190	Towards large-capacity, energy-efficient, and sustainable communication networks. Synthesiology, 2014, 7, 43-56.	0.2	1
191	Robust Design of 3-dB Directional Coupler with Weak Gap Sensitivity for Silicon Wire Waveguide. , 2014, , .		1
192	Dynamic Optical Path Switching in 172-Gb/s OTDM Transmissions of Ultra-High Definition Video Signals Using Fast Channel-Identifiable Clock Recovery and Integratable Devices. Journal of Lightwave Technology, 2013, 31, 594-601.	4.6	8
193	No guard-band wavelength translation of Nyquist OTDM-WDM signal for spectral defragmentation in an elastic addâ€“drop node. Optics Letters, 2013, 38, 3287.	3.3	21
194	Baud-rate flexible clock recovery and channel identification in OTDM realized by pulse position modulation. Optics Express, 2013, 21, 4447.	3.4	6
195	Transmission and pass-drop operations of mixed baudrate Nyquist OTDM-WDM signals for all-optical elastic network. Optics Express, 2013, 21, 20313.	3.4	26
196	Sub-millisecond timing-jitter-free tuning of parametric dispersion compensator. Optics Express, 2013, 21, 27169.	3.4	5
197	Adaptive adjustment of reference constellation for demodulating 16QAM signal with intrinsic distortion due to imperfect modulation. Optics Express, 2013, 21, 29120.	3.4	16
198	Observation of spontaneous Raman scattering in hydrogenated amorphous silicon wire waveguide at 1.55 Âµm. Electronics Letters, 2013, 49, 610-612.	1.0	0

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199	Experimental study on parametric tunable dispersion compensation for WDM channels with mixed OOK and QPSK formats. Electronics Letters, 2013, 49, 401-402.	1.0	1
200	Efficient phase regeneration of DPSK signal by sidebandâ€assisted dualâ€pump phaseâ€sensitive amplifier. Electronics Letters, 2013, 49, 140-141.	1.0	20
201	All-optical Wide-area Node Connections Assisted with Optical Parametric Regeneration and Wavelength Conversion. , 2013, , .		0
202	Fast Wavelength Switching of Fully Heater-tuned CSG-DR Lasers. , 2013, , .		3
203	Stable Clock Recovery and Channel Identification in OTDM realized by In-band Clock distribution based on Pulse Position Modulation. , 2013, , .		0
204	Demonstration of Parametric Tunable Dispersion Compensation for WDM Channels with Mixed OOK and QPSK Formats. , 2013, , .		1
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