

# Leif Katsuo OxenlÃ,we

## List of Publications by Year in descending order

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440  
papers

6,844  
citations

66343

42  
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82547

72  
g-index

443  
all docs

443  
docs citations

443  
times ranked

4987  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidimensional quantum entanglement with large-scale integrated optics. <i>Science</i> , 2018, 360, 285-291.	12.6	554
2	High-Dimensional Quantum Communication: Benefits, Progress, and Future Challenges. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900038.	3.9	195
3	High-dimensional quantum key distribution based on multicore fiber using silicon photonic integrated circuits. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	182
4	Single-source chip-based frequency comb enabling extreme parallel data transmission. <i>Nature Photonics</i> , 2018, 12, 469-473.	31.4	165
5	Chip-to-chip quantum teleportation and multi-photon entanglement in silicon. <i>Nature Physics</i> , 2020, 16, 148-153.	16.7	163
6	Generation and sampling of quantum states of light in a silicon chip. <i>Nature Physics</i> , 2019, 15, 925-929.	16.7	148
7	640 Gbit/s and 128 Tbit/s polarisation insensitive all optical wavelength conversion. <i>Optics Express</i> , 2010, 18, 9961.	3.4	143
8	Demonstration of 51 Tbit/s data capacity on a single-wavelength channel. <i>Optics Express</i> , 2010, 18, 1438.	3.4	134
9	Orbital Angular Momentum States Enabling Fiber-based High-dimensional Quantum Communication. <i>Physical Review Applied</i> , 2019, 11, .	3.8	128
10	Breakthrough switching speed with an all-optical chalcogenide glass chip: 640 Gbit/s demultiplexing. <i>Optics Express</i> , 2009, 17, 2182.	3.4	117
11	0.4 THz Photonic-Wireless Link With 106 Gb/s Single Channel Bitrate. <i>Journal of Lightwave Technology</i> , 2018, 36, 610-616.	4.6	113
12	Ultra-compact integrated graphene plasmonic photodetector with bandwidth above 110 GHz. <i>Nanophotonics</i> , 2020, 9, 317-325.	6.0	113
13	160 Gbit/s photonics wireless transmission in the 300-500 GHz band. <i>APL Photonics</i> , 2016, 1, .	5.7	110
14	Nonlinear properties of and nonlinear processing in hydrogenated amorphous silicon waveguides. <i>Optics Express</i> , 2011, 19, B146.	3.4	108
15	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	107
16	1.28 Tbit/s single-polarisation serial OOK optical data generation and demultiplexing. <i>Electronics Letters</i> , 2009, 45, 280.	1.0	105
17	Constellation Shaping for WDM Systems Using 256QAM/1024QAM With Probabilistic Optimization. <i>Journal of Lightwave Technology</i> , 2016, 34, 5146-5156.	4.6	105
18	Efficient electro-optic modulation in low-loss graphene-plasmonic slot waveguides. <i>Nanoscale</i> , 2017, 9, 15576-15581.	5.6	94

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19	A programmable qudit-based quantum processor. <i>Nature Communications</i> , 2022, 13, 1166.	12.8	93
20	320 Gb/s Nyquist OTDM received by polarization-insensitive time-domain OFT. <i>Optics Express</i> , 2014, 22, 110.	3.4	78
21	Ultra-efficient and Broadband Nonlinear AlGaAs-on-insulator Chip for Low-power Optical Signal Processing. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800111.	8.7	78
22	A Versatile Silicon-Silicon Nitride Photonics Platform for Enhanced Functionalities and Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 255.	2.5	78
23	12 mode, WDM, MIMO-free orbital angular momentum transmission. <i>Optics Express</i> , 2018, 26, 20225.	3.4	77
24	Air-core fiber distribution of hybrid vector vortex-polarization entangled states. <i>Advanced Photonics</i> , 2019, 1, 1.	11.8	74
25	Photonic chip based transmitter optimization and receiver demultiplexing of a 128 Tbit/s OTDM signal. <i>Optics Express</i> , 2010, 18, 17252.	3.4	73
26	Flat-Top Pulse Generation by the Optical Fourier Transform Technique for Ultrahigh Speed Signal Processing. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1317-1324.	1.9	72
27	Ultra-high-speed wavelength conversion in a silicon photonic chip. <i>Optics Express</i> , 2011, 19, 19886.	3.4	72
28	100-Gbps RZ Data Reception in 67-GHz Si-Contacted Germanium Waveguide p-i-n Photodetectors. <i>Journal of Lightwave Technology</i> , 2017, 35, 722-726.	4.6	69
29	Optical Waveform Sampling and Error-Free Demultiplexing of 1.28 Tb/s Serial Data in a Nanoengineered Silicon Waveguide. <i>Journal of Lightwave Technology</i> , 2011, 29, 426-431.	4.6	66
30	Low-Jitter and High-Power 40-GHz All-Active Mode-Locked Lasers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 975-977.	2.5	63
31	2 Å– 300 Gbit/s Line Rate PS-64QAM-OFDM THz Photonic-Wireless Transmission. <i>Journal of Lightwave Technology</i> , 2020, 38, 4715-4721.	4.6	61
32	Chip-based optical frequency combs for high-capacity optical communications. <i>Nanophotonics</i> , 2021, 10, 1367-1385.	6.0	59
33	OTDM-to-WDM Conversion Based on Time-to-Frequency Mapping by Time-Domain Optical Fourier Transformation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 681-688.	2.9	54
34	1.28-Tb/s Demultiplexing of an OTDM DPSK Data Signal Using a Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1762-1764.	2.5	53
35	120 Gb/s Multi-Channel THz Wireless Transmission and THz Receiver Performance Analysis. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 310-313.	2.5	53
36	Error-protected qubits in a silicon photonic chip. <i>Nature Physics</i> , 2021, 17, 1137-1143.	16.7	53

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37	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. <i>Optics Express</i> , 2013, 21, 31047.	3.4	50
38	400-GHz Wireless Transmission of 60-Gb/s Nyquist-QPSK Signals Using UTC-PD and Heterodyne Mixer. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 765-770.	3.1	49
39	Boosting the secret key rate in a shared quantum and classical fibre communication system. <i>Communications Physics</i> , 2019, 2, .	5.3	48
40	Integrated dual-laser photonic chip for high-purity carrier generation enabling ultrafast terahertz wireless communications. <i>Nature Communications</i> , 2022, 13, 1388.	12.8	48
41	Annealing-free Si <sub>3</sub> N <sub>4</sub> frequency combs for monolithic integration with Si photonics. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	46
42	Efficient Time-Bin Encoding for Practical High-Dimensional Quantum Key Distribution. <i>Physical Review Applied</i> , 2020, 14, .	3.8	46
43	Ultra-high-speed optical serial-to-parallel data conversion by time-domain optical Fourier transformation in a silicon nanowire. <i>Optics Express</i> , 2011, 19, B825.	3.4	44
44	THz photonic wireless links with 16-QAM modulation in the 375-450 GHz band. <i>Optics Express</i> , 2016, 24, 23777.	3.4	44
45	Silicon Photonics for Signal Processing of Tbit/s Serial Data Signals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 996-1005.	2.9	43
46	Field trial of a three-state quantum key distribution scheme in the Florence metropolitan area. <i>EPJ Quantum Technology</i> , 2019, 6, .	6.3	43
47	A high-speed demultiplexer based on a nonlinear optical loop mirror with a photonic crystal fiber. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1147-1149.	2.5	41
48	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. <i>Journal of Lightwave Technology</i> , 2017, 35, 3750-3757.	4.6	41
49	Advances in Silicon Quantum Photonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-24.	2.9	41
50	640-Gbit/s Data Transmission and Clock Recovery Using an Ultrafast Periodically Poled Lithium Niobate Device. <i>Journal of Lightwave Technology</i> , 2009, 27, 205-213.	4.6	40
51	One-to-six WDM multicasting of DPSK signals based on dual-pump four-wave mixing in a silicon waveguide. <i>Optics Express</i> , 2011, 19, 24448.	3.4	40
52	Optical Wavelength Conversion by Cross-Phase Modulation of Data Signals up to 640 Gb/s. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 573-579.	2.9	38
53	Reconfigurable SDM Switching Using Novel Silicon Photonic Integrated Circuit. <i>Scientific Reports</i> , 2016, 6, 39058.	3.3	38
54	Compact titanium dioxide waveguides with high nonlinearity at telecommunication wavelengths. <i>Optics Express</i> , 2018, 26, 1055.	3.4	37

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55	10 GHz pulse source for 640 Gbit/s OTDM based on phase modulator and self-phase modulation. Optics Express, 2011, 19, B343.	3.4	36
56	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. Optics Letters, 2015, 40, 2357.	3.3	36
57	640 Gbit/s clock recovery using periodically poled lithium niobate. Electronics Letters, 2008, 44, 370.	1.0	35
58	Bridging the Terahertz Gap: Photonics-Assisted Free-Space Communications From the Submillimeter-Wave to the Mid-Infrared. Journal of Lightwave Technology, 2022, 40, 3149-3162.	4.6	33
59	Space division multiplexing chip-to-chip quantum key distribution. Scientific Reports, 2017, 7, 12459.	3.3	32
60	Double-layer graphene on photonic crystal waveguide electro-absorption modulator with 12 GHz bandwidth. Nanophotonics, 2020, 9, 2377-2385.	6.0	32
61	640 Gb/s Timing Jitter-Tolerant Data Processing Using a Long-Period Fiber-Grating-Based Flat-Top Pulse Shaper. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 566-572.	2.9	31
62	Two-dimensional distributed-phase-reference protocol for quantum key distribution. Scientific Reports, 2016, 6, 36756.	3.3	30
63	Optical label encoding using electroabsorption modulators and investigation of chirp properties. Journal of Lightwave Technology, 2003, 21, 1763-1769.	4.6	28
64	60 Gbit/s 400 GHz wireless transmission. , 2015, , .		26
65	Scalable WDM phase regeneration in a single phase-sensitive amplifier through optical time lenses. Nature Communications, 2018, 9, 1049.	12.8	26
66	Ultra-low power all-optical wavelength conversion of high-speed data signals in high-confinement AlGaAs-on-insulator microresonators. APL Photonics, 2019, 4, .	5.7	26
67	Polarization insensitive wavelength conversion in a dispersion-engineered silicon waveguide. Optics Express, 2012, 20, 16374.	3.4	25
68	Stable Transmission of High-Dimensional Quantum States Over a 2-km Multicore Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	2.9	25
69	A new orthogonal labeling scheme based on a 40-Gb/s DPSK payload and a 2.5-Gb/s PolSK label. IEEE Photonics Technology Letters, 2005, 17, 2772-2774.	2.5	24
70	Demultiplexing of 320-Gb/s OTDM Data Using Ultrashort Flat-Top Pulses. IEEE Photonics Technology Letters, 2007, 19, 1855-1857.	2.5	24
71	Experimental Demonstration of Multidimensional Switching Nodes for All-Optical Data Center Networks. Journal of Lightwave Technology, 2016, 34, 1837-1843.	4.6	24
72	Orbital angular momentum modes emission from a silicon photonic integrated device for km-scale data-carrying fiber transmission. Optics Express, 2018, 26, 15471.	3.4	24

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73	Path-encoded high-dimensional quantum communication over a 2-km multicore fiber. Npj Quantum Information, 2021, 7, .	6.7	24
74	Generation of a 640 Gbit/s NRZ OTDM signal using a silicon microring resonator. Optics Express, 2011, 19, 6471.	3.4	22
75	Integrated Dual-DFB Laser for 408 GHz Carrier Generation Enabling 131 Gbit/s Wireless Transmission over 10.7 Meters. , 2019, , .		22
76	Photonic integrated chip enabling orbital angular momentum multiplexing for quantum communication. Nanophotonics, 2022, 11, 821-827.	6.0	22
77	Polarization-Insensitive 640 Gb/s Demultiplexing Based on Four Wave Mixing in a Polarization-Maintaining Fibre Loop. Journal of Lightwave Technology, 2010, 28, 1789-1795.	4.6	21
78	Time Lens-Based Optical Fourier Transformation for All-Optical Signal Processing of Spectrally-Efficient Data. Journal of Lightwave Technology, 2017, 35, 799-806.	4.6	21
79	Signal reshaping and noise suppression using photonic crystal Fano structures. Optics Express, 2018, 26, 19596.	3.4	21
80	Characterization and Optimization of Four-Wave-Mixing Wavelength Conversion System. Journal of Lightwave Technology, 2019, 37, 5628-5636.	4.6	21
81	4:1 Silicon Photonic Serializer for Data Center Interconnects Demonstrating 104 Gbaud OOK and PAM4 Transmission. Journal of Lightwave Technology, 2019, 37, 1498-1503.	4.6	21
82	THz Wireless Transmission Systems Based on Photonic Generation of Highly Pure Beat-Notes. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	20
83	All-Optical Ultra-High-Speed OFDM to Nyquist-WDM Conversion Based on Complete Optical Fourier Transformation. Journal of Lightwave Technology, 2016, 34, 626-632.	4.6	20
84	All-optical TDM data demultiplexing at 80 Gb/s with significant timing jitter tolerance using a fiber Bragg grating based rectangular pulse switching technology. Journal of Lightwave Technology, 2003, 21, 2518-2523.	4.6	19
85	15-THz Tunable Wavelength Conversion of Picosecond Pulses in a Silicon Waveguide. IEEE Photonics Technology Letters, 2011, 23, 1409-1411.	2.5	19
86	Compact high-efficiency vortex beam emitter based on a silicon photonics micro-ring. Optics Letters, 2018, 43, 1319.	3.3	19
87	Wavelength Conversion of a 9.35-Gb/s RZ OOK Signal in an InP Photonic Crystal Nanocavity. IEEE Photonics Technology Letters, 2014, 26, 257-260.	2.5	18
88	Nonlinear Phase Noise Compensation in Experimental WDM Systems With 256QAM. Journal of Lightwave Technology, 2017, 35, 1438-1443.	4.6	18
89	Single Channel 106 Gbit/s 16QAM Wireless Transmission in the 0.4 THz Band. , 2017, , .		18
90	Super-broadband on-chip continuous spectral translation unlocking coherent optical communications beyond conventional telecom bands. Nature Communications, 2022, 13, .	12.8	18

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91	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. APL Photonics, 2017, 2, 046105.	5.7	17
92	Ultrahigh-Spectral-Efficiency WDM/SDM Transmission Using PDM-1024-QAM Probabilistic Shaping With Adaptive Rate. Journal of Lightwave Technology, 2018, 36, 1304-1308.	4.6	17
93	Perturbation-Based FEC-Assisted Iterative Nonlinearity Compensation for WDM Systems. Journal of Lightwave Technology, 2019, 37, 875-881.	4.6	17
94	1.28 Tbaud Nyquist Signal Transmission using Time-Domain Optical Fourier Transformation based Receiver. , 2013, , .		17
95	All-optical OFDM demultiplexing by spectral magnification and band-pass filtering. Optics Express, 2014, 22, 136.	3.4	16
96	Intra-Datcenter Interconnects With a Serialized Silicon Optical Frequency Comb Modulator. Journal of Lightwave Technology, 2020, 38, 4677-4682.	4.6	16
97	High-Q titanium dioxide micro-ring resonators for integrated nonlinear photonics. Optics Express, 2020, 28, 39084.	3.4	16
98	Unidirectional frequency conversion in microring resonators for on-chip frequency-multiplexed single-photon sources. New Journal of Physics, 2019, 21, 033037.	2.9	15
99	Frequency-domain ultrafast passive logic: NOT and XNOR gates. Nature Communications, 2020, 11, 5839.	12.8	15
100	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
101	Parametric amplification and phase preserving amplitude regeneration of a 640 Gbit/s RZ-DPSK signal. Optics Express, 2013, 21, 25944.	3.4	14
102	All-Optical Switching Improvement Using Photonic-Crystal Fano Structures. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	14
103	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. Optics Letters, 2018, 43, 955.	3.3	14
104	DSP-free single-wavelength 100 Gbps SDM-PON with increased splitting ratio using 10G-class DML. Optics Express, 2019, 27, 33915.	3.4	14
105	Bi-directional 120 km Long-reach PON Link Based on Distributed Raman Amplification. , 2006, , .		13
106	Photonic chip based 1.28 Tbaud Transmitter Optimization and Receiver OTDM Demultiplexing. , 2010, , .		13
107	Optical Waveform Sampling and Error-free Demultiplexing of 1.28 Tbit/s Serial Data in a Silicon Nanowire. , 2010, , .		13
108	Ultrafast all-optical clock recovery based on phase-only linear optical filtering. Optics Letters, 2014, 39, 2815.	3.3	13

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109	Record-High Secret Key Rate for Joint Classical and Quantum Transmission Over a 37-Core Fiber. , 2018, , .		13
110	All-Optical 160-Gbit/s Retiming System Using Fiber Grating Based Pulse Shaping Technology. Journal of Lightwave Technology, 2009, 27, 1135-1141.	4.6	12
111	4 Å— 160-Gbit/s multi-channel regeneration in a single fiber. Optics Express, 2014, 22, 11456.	3.4	12
112	The prospects of ultra-broadband THz wireless communications. , 2014, , .		12
113	160-Gb/s Silicon All-Optical Packet Switch for Buffer-less Optical Burst Switching. Journal of Lightwave Technology, 2015, 33, 843-848.	4.6	12
114	300 Gb/s IM/DD based SDM-WDM-PON with laserless ONUs. Optics Express, 2018, 26, 7949.	3.4	12
115	Recent Progress on Optical Regeneration of Wavelength-Division-Multiplexed Data. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	2.9	12
116	AlGaAs-On-Insulator Nanowire with 750 nm FWM Bandwidth, -9 dB CW Conversion Efficiency, and Ultrafast Operation Enabling Record Tbaud Wavelength Conversion. , 2015, , .		12
117	Quantum randomness generation via orbital angular momentum modes crosstalk in a ring-core fiber. AVS Quantum Science, 2022, 4, .	4.9	12
118	320 Gbps to 10 GHz sub-clock recovery using a PPLN-based opto-electronic phase-locked loop. Optics Express, 2008, 16, 5007.	3.4	11
119	Optical switching and detection of 640 Gbits/s optical time-division multiplexed data packets transmitted over 50 km of fiber. Optics Letters, 2011, 36, 3473.	3.3	11
120	Polarization-insensitive wavelength conversion of 40 Gb/s NRZ-DPSK signals in a silicon polarization diversity circuit. Optics Express, 2014, 22, 12467.	3.4	11
121	Probabilistically Shaped Rate-Adaptive Polar-Coded 256-QAM WDM Optical Transmission System. Journal of Lightwave Technology, 2020, 38, 1800-1808.	4.6	11
122	Silicon/silicon-rich nitride hybrid-core waveguide for nonlinear optics. Optics Express, 2019, 27, 23775.	3.4	11
123	640 Gb/s OTDM transmission and demultiplexing using a NOLM with commercially available highly non-linear fiber. , 2005, , .		10
124	Forward error correction supported 150 Gbit/s error-free wavelength conversion based on cross phase modulation in silicon. Optics Express, 2013, 21, 3152.	3.4	10
125	Combined Optical and Electrical Spectrum Shaping for High-Baud-Rate Nyquist-WDM Transceivers. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	10
126	A Novel Phase-Locking-Free Phase Sensitive Amplifier-Based Regenerator. Journal of Lightwave Technology, 2016, 34, 643-652.	4.6	10



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127	Experimental demonstration of the DPTS QKD protocol over a 170-km fiber link. Applied Physics Letters, 2019, 114, .	3.3	10
128	Optical Phase Conjugation in a Silicon Waveguide With Lateral p-i-n Diode for Nonlinearity Compensation. Journal of Lightwave Technology, 2019, 37, 323-329.	4.6	10
129	Single Dark-Pulse Kerr Comb Supporting 1.84 Pbit/s Transmission over 37-Core Fiber. , 2020, , .		10
130	Generating a Square Switching Window for Timing Jitter Tolerant 160 Gb/s Demultiplexing by the Optical Fourier Transform Technique. , 2006, , .		9
131	Exploring THz band for high speed wireless communications. , 2016, , .		9
132	640-Gbit/s return-to-zero to non-return-to-zero format conversion based on optical linear spectral phase filtering. Optics Letters, 2016, 41, 64.	3.3	9
133	Probabilistic Shaping for the Optical Phase Conjugation Channel. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-16.	2.9	9
134	909.5 Tbit/s Dense SDM and WDM Transmission Based on a Single Source Optical Frequency Comb and Kramers-Kronig Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	9
135	Single Source 5-dimensional (Space-, Wavelength-, Time-, Polarization-, Quadrature-) 43 Tbit/s Data Transmission of 6 SDM – 6 WDM – 1.2 Tbit/s Nyquist-OTDM-PDM-QPSK. , 2014, , .		9
136	640 Gbit/s time-division add-drop multiplexing using a non-linear polarisation-rotating fibre loop. , 2008, , .		8
137	Error-free transmission of serial 1.28 Tbaud RZ-DPSK signal. , 2010, , .		8
138	Dual-polarization wavelength conversion of 16-QAM signals in a single silicon waveguide with a lateral p-i-n diode [Invited]. Photonics Research, 2018, 6, B23.	7.0	8
139	Silicon Waveguide with Lateral p-i-n Diode for Nonlinearity Compensation by On-Chip Optical Phase Conjugation. , 2018, , .		8
140	Characterization and stability measurement of deployed multicore fibers for quantum applications. Photonics Research, 2021, 9, 1992.	7.0	8
141	Silicon Chip based Wavelength Conversion of Ultra-High Repetition Rate Data Signals. , 2011, , .		8
142	12 Mode, MIMO-Free OAM Transmission. , 2017, , .		8
143	Lumped Compensation of Nonlinearities based on Optical Phase Conjugation. Journal of Lightwave Technology, 2022, 40, 681-691.	4.6	8
144	Timing jitter analysis for clock recovery circuits based on an optoelectronic phase-locked loop (OPLL). , 2005, , .		7

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145	640 GBd Phase-Correlated OTDM NRZ-OOK Generation and Field Trial Transmission. <i>Journal of Lightwave Technology</i> , 2013, 31, 696-701.	4.6	7
146	All-optical OFDM system using a wavelength selective switch based transmitter and a spectral magnification based receiver. , 2014, , .		7
147	Real-Time All-Optical OFDM Transmission System Based on Time-Domain Optical Fourier Transformation. , 2014, , .		7
148	Experimental demonstration of 6-mode division multiplexed NG-PON2: Cost effective 40 Gbit/s/spatial-mode access based on 3D laser inscribed photonic lanterns. , 2015, , .		7
149	Detailed characterization of CW- and pulsed-pump four-wave mixing in highly nonlinear fibers. <i>Optics Letters</i> , 2016, 41, 4887.	3.3	7
150	Kramersâ€™Kronig Detection with Adaptive Rates for 909.5 Tbit/s Dense SDM and WDM Data Channels. , 2018, , .		7
151	All-optical 160 Gbit/s RZ data retiming system incorporating a pulse shaping fibre Bragg grating. , 2007, , .		7
152	Bidirectional 120 Gbps SDM-WDM-PON with Colourless ONU using 10 Gbps Optical Components without DSP. , 2016, , .		7
153	744-nm wavelength conversion of PAM-4 signal using an AlGaAsOI nanowaveguide. <i>Optics Letters</i> , 2020, 45, 889.	3.3	7
154	Clock recovery for 320 Gb/s OTDM data using filtering-assisted XPM in an SOA. , 0, , .		6
155	Phase Noise Analysis of Clock Recovery Based on an Optoelectronic Phase-Locked Loop. <i>Journal of Lightwave Technology</i> , 2007, 25, 901-914.	4.6	6
156	Impairments Due to Burst-Mode Transmission in a Raman-Based Long-Reach PON Link. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1490-1492.	2.5	6
157	640 Gbit/s optical time-division add-drop multiplexing in a non-linear optical loop mirror. , 2009, , .		6
158	Optical Synchronization of a 10-G Ethernet Packet and Time-Division Multiplexing to a 50-Gb/s Signal Using an Optical Time Lens. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1583-1585.	2.5	6
159	Nonlinear Optical Signal Processing for Tbit/s Ethernet Applications. <i>International Journal of Optics</i> , 2012, 2012, 1-14.	1.4	6
160	25-Gb/s Transmission Over 2.5-km SSMF by Silicon MRR Enhanced 1.55- $\mu\text{m}$ III-V/SOI DML. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 960-963.	2.5	6
161	Impact of Signal-Conjugate Wavelength Shift on Optical Phase Conjugation-based Transmission of QAM Signals. , 2017, , .		6
162	Optimization and characterization of highly nonlinear fiber for broadband optical time lens applications. <i>Optics Express</i> , 2017, 25, 12566.	3.4	6

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163	100s Gigabit/s THz Communication. , 2018, , .		6
164	OTDM-to-WDM Conversion of Complex Modulation Formats by Time-Domain Optical Fourier Transformation. , 2012, , .		6
165	Silicon Chip-to-Chip Mode-Division Multiplexing. , 2018, , .		6
166	Silicon Chip based Wavelength Conversion of Ultra-High Repetition Rate Data Signals. , 2011, , .		6
167	Generation and Detection of 2.56 Tbit/s OTDM Data using DPSK and Polarisation Multiplexing. , 2010, , .		5
168	Synchronization, retiming and time-division multiplexing of an asynchronous 10 Gigabit NRZ Ethernet packet to terabit Ethernet. Optics Express, 2011, 19, B931.	3.4	5
169	In-Fiber Subpicosecond Pulse Shaping for Nonlinear Optical Telecommunication Data Processing at 640â€‰Gbit/s. International Journal of Optics, 2012, 2012, 1-16.	1.4	5
170	All-optical WDM regeneration of DPSK signals using optical fourier transformation and phase sensitive amplification. , 2015, , .		5
171	Linear all-optical signal processing using silicon micro-ring resonators. Frontiers of Optoelectronics, 2016, 9, 362-376.	3.7	5
172	Unrepeated Transmission Reach Extension by Receiver-Side all-Optical Back-Propagation. , 2019, , .		5
173	Silicon Photonics for Quantum Communication. , 2019, , .		5
174	Experimental Comparison of Probabilistic Shaping with online PMF Optimization and Mid-link OPC. , 2018, , .		5
175	Four-Wave Mixing in Silicon-Rich Nitride Waveguides. , 2015, , .		5
176	640 Gbaud NRZ-OOK data signal generation and 1.19 Tbit/s PDM-NRZ-OOK field trial transmission. , 2012, , .		5
177	Regeneration of Phase Unlocked Serial Multiplexed DPSK Signals in a Single Phase Sensitive Amplifier. , 2017, , .		5
178	All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling. Optics Letters, 2019, 44, 443.	3.3	5
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