Hao Hu

List of Publications by Year
in descending order

275	4,252	117625	144013
papers	citations	34 h-index	57 g-index

278	278	278	3554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Integrated dual-laser photonic chip for high-purity carrier generation enabling ultrafast terahertz wireless communications. Nature Communications, 2022, 13, 1388.	12.8	48
3	Super-broadband on-chip continuous spectral translation unlocking coherent optical communications beyond conventional telecom bands. Nature Communications, 2022, 13, .	12.8	18
4	Low-dose alcohol ameliorated high fat diet-induced anxiety-related behavior via enhancing adiponectin expression and activating the Nrf2 pathway. Food and Function, 2021, 12, 241-251.	4.6	6
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e87" altimg="si5.svg"><mml:mrow><mml:mn>2</mml:mn><mml:mspace width="1em" class="nbsp" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:mrow></mml:math> mid-infrared silicon-rich silicon nitride/silicon hybrid nonlinear waveguides. Optics Communications, 2021, 481, 126544.	2.1	3
6	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
7	Compact, Energy-Efficient, and Low-Loss Thermo-Optic Silicon Optical Phase Shifter. , 2021, , .		1
8	Chip-based optical frequency combs for high-capacity optical communications. Nanophotonics, 2021, 10, 1367-1385.	6.0	59
9	Digital-Analog Hybrid Optical Access Integrating 56-Gbps PAM-4 Signal and 5G mmWave Signal by Spectral Null Filling. Journal of Lightwave Technology, 2021, 39, 1278-1288.	4.6	9
10	Integrated MLL chip-based PAM-4/DMT-16QAM photonic-wireless link in W-band for flexible applications. Optics Express, 2021, 29, 15969.	3.4	2
11	Stimulated Brillouin Scattering on AlGaAs on Sapphire platform. , 2021, , .		1
12	Soliton Burst and Bi‐Directional Switching in the Platform with Positive Thermal‐Refractive Coefficient Using an Auxiliary Laser. Laser and Photonics Reviews, 2021, 15, 2100264.	8.7	16
13	Integrated Dual-DFB Laser Chip-based PAM-4 Photonic-Wireless Transmission in W-band. , 2021, , .		2
14	Carrier-recovery-free KK detection for PDM-bipolar-PAM in 100 Gb/s simplified coherent PON. , 2021, , .		2
15	100 Gbit/s PAM-16 Transmission in the 2-Âµm Band over a 1.15-km Hollow-Core Fiber. , 2021, , .		1
16	Single-photodiode 100 Gbaud PAM-6 Transmission with Extended Transmitter Bandwidth using Optical Time and Polarization Interleaving. , 2021, , .		0
17	Free-Space Transmissions in the Upper- and Lower-THz Bands Assisted with Photonics. , 2021, , .		1
18	Low-dose alcohol ameliorated homocysteine-induced anxiety-related behavior via attenuating oxidative stress in mice. Neuroscience Letters, 2020, 714, 134568.	2.1	3

#	Article	IF	Citations
19	Ultra-compact integrated graphene plasmonic photodetector with bandwidth above 110 GHz. Nanophotonics, 2020, 9, 317-325.	6.0	113
20	Piecewise Linear Equalizer for DML Based PAM-4 Signal Transmission Over a Dispersion Uncompensated Link. Journal of Lightwave Technology, 2020, 38, 654-660.	4.6	13
21	Characterization and Optimal Design of Silicon-Rich Nitride Nonlinear Waveguides for 2 Î¼m Wavelength Band. Applied Sciences (Switzerland), 2020, 10, 8087.	2.5	2
22	2 Ã— 300 Gbit/s Line Rate PS-64QAM-OFDM THz Photonic-Wireless Transmission. Journal of Lightwave Technology, 2020, 38, 4715-4721.	4.6	61
23	Intra-Datacenter Interconnects With a Serialized Silicon Optical Frequency Comb Modulator. Journal of Lightwave Technology, 2020, 38, 4677-4682.	4.6	16
24	120 GBaud PAM-4/PAM-6 Generation and Detection by Photonic Aided Digital-to-Analog Converter and Linear Equalization. Journal of Lightwave Technology, 2020, 38, 2226-2230.	4.6	7
25	Changes in the hepatitis B surface antibody in childhood acute lymphocytic leukaemia survivors after treatment with the CCLG-ALL 2008 protocol. Clinical and Experimental Immunology, 2020, 203, 80-86.	2.6	2
26	2-um high-speed graphene electro-optic modulator based on silicon slot microring resonator. , 2020, , .		2
27	Single Dark-Pulse Kerr Comb Supporting 1.84 Pbit/s Transmission over 37-Core Fiber. , 2020, , .		10
28	Energy-Efficient Thermo-Optic Phase Shifter with a Small Footprint Based on a Silicon Spiral Waveguide. , 2020, , .		1
29	Computationally efficient 104 Gb/s PWL-Volterra equalized 2D-TCM-PAM8 in dispersion unmanaged DML-DD system. Optics Express, 2020, 28, 7070.	3.4	14
30	224-Gbps single-photodiode PAM-4 transmission with extended transmitter bandwidth based on optical time-and-polarization interleaving. Optics Express, 2020, 28, 21155.	3.4	7
31	High-Q titanium dioxide micro-ring resonators for integrated nonlinear photonics. Optics Express, 2020, 28, 39084.	3.4	16
32	744-nm wavelength conversion of PAM-4 signal using an AlGaAsOI nanowaveguide. Optics Letters, 2020, 45, 889.	3.3	7
33	Energy-efficient thermo-optic silicon phase shifter with well-balanced overall performance. Optics Letters, 2020, 45, 4806.	3.3	32
34	Double-layer graphene on photonic crystal waveguide electro-absorption modulator with 12 GHz bandwidth. Nanophotonics, 2020, 9, 2377-2385.	6.0	32
35	Computationally Efficient 120 Gb/s/Î» PWL Equalized 2D-TCM-PAM8 in Dispersion Unmanaged DML-DD System. , 2020, , .		2
36	Low-Cost and High-Spectral-Efficient Co-Transmission Integrating 28-Gbaud PAM-4/NRZ and 5G-mmW ARoF. , 2020, , .		4

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37	DMT-16QAM photonic-wireless link in W-band enabled by an integrated MLL chip. , 2020, , .		0
38	Broadband Optical Signal Processing in AlGaAs-on-insulator Waveguides. , 2020, , .		0
39	100-Gb/s PAM-4 Transmission for Next-Generation Optical Access Networks Using a Silicon Micro-Ring Resonator. , 2020, , .		1
40	PS-64QAM-OFDM THz Photonic-Wireless Transmission with 2Ã—300 Gbit/s Line Rate. , 2020, , .		5
41	Generation and heterodyne detection of a 2-Î¼m-band 16-QAM signal based on inter-band wavelength conversion. , 2020, , .		0
42	Chip Based THz Emitter for Ultra-high Speed THz Wireless Communication. , 2019, , .		1
43	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
44	Piecewise linear equalizer for 56 GBit/s PAM-4 signal transmission using DML with large adiabatic chirp. , 2019, , .		1
45	100 GBPS simplified coherent PON using carrier-suppressed PDM-PAM-4 and phase-recovery-free KK detection. , 2019, , .		0
46	107.1-Gbps net-rate transmission over a joint 51km-fibre-and-10.7m-wireless link for terahertz radio access networks. , 2019, , .		7
47	Nonlinear Tomlinson-Harashima precoding for direct-detected double sideband PAM-4 transmission without dispersion compensation. Optics Express, 2019, 27, 19156.	3.4	29
48	Silicon/silicon-rich nitride hybrid-core waveguide for nonlinear optics. Optics Express, 2019, 27, 23775.	3.4	11
49	Integrated Dual-DFB Laser for 408 GHz Carrier Generation Enabling 131 Gbit/s Wireless Transmission over 10.7 Meters. , 2019, , .		22
50	High-Order Phase-Matching Enabled Octave-Bandwidth Four-Wave Mixing in AlGaAs-On-Insulator Waveguides. , 2019, , .		5
51	Foundry-Fabricated Dual-DFB PIC Injection-Locked to Optical Frequency Comb for High-Purity THz Generation. , 2019, , .		4
52	Wavelength conversion of 10 Gbit/s data from 2000 to 1255 nm using an AlGaAsOI nanowaveguide and a continuous-wave pump in the C band. , 2019, , .		2
53	Manipulation and Optical Processing of WDM Signals Using Optical Time Lenses. , 2019, , .		0
54	Large Modulation Depth Photonic Crystal Waveguide Electro-Absorption Modulator. , 2019, , .		0

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55	DSP-free single-wavelength 100 Gbps SDM-PON with increased splitting ratio using 10G-class DML. Optics Express, 2019, 27, 33915.	3.4	14
56	Enhancing amplification of lateâ€outgrowth endothelial cells by bilobalide. Journal of Cellular and Molecular Medicine, 2018, 22, 3340-3352.	3.6	9
57	0.4 THz Photonic-Wireless Link With 106 Gb/s Single Channel Bitrate. Journal of Lightwave Technology, 2018, 36, 610-616.	4.6	113
58	Scalable WDM phase regeneration in a single phase-sensitive amplifier through optical time lenses. Nature Communications, 2018, 9, 1049.	12.8	26
59	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
60	Ultra-broadband THz photonic wireless transmission. , 2018, , .		0
61	Nonlinearity Compensation through Optical Phase Conjugation for Improved Transmission Reach/Rate. , 2018, , .		0
62	Spatially controlled electrostatic doping in graphene p-i-n junction for hybrid silicon photodiode. Npj 2D Materials and Applications, 2018, 2, .	7.9	31
63	Broadband Light Sources Based On Highly-Nonlinear AlGaAs-On-Insulator Waveguide Devices. , 2018, , .		0
64	Kramersâ€“Kronig Detection with Adaptive Rates for 909.5 Tbit/s Dense SDM and WDM Data Channels. , 2018, , .		7
65	Fano Resonances for Realizing Compact and Low Energy Consumption Photonic Switches. , 2018, , .		0
66	Ultraâ€Efficient and Broadband Nonlinear AlGaAsâ€onâ€Insulator Chip for Lowâ€Power Optical Signal Processing. Laser and Photonics Reviews, 2018, 12, 1800111.	8.7	78
67	100s Gigabit/s THz Communication. , 2018, , .		6
68	12 mode, WDM, MIMO-free orbital angular momentum transmission. Optics Express, 2018, 26, 20225.	3.4	77
69	Broadband Optical Frequency Comb Generation With Flexible Frequency Spacing and Center Wavelength. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	23
70	Single-source chip-based frequency comb enabling extreme parallel data transmission. Nature Photonics, 2018, 12, 469-473.	31.4	165
71	Compact titanium dioxide waveguides with high nonlinearity at telecommunication wavelengths. Optics Express, 2018, 26, 1055.	3.4	37
72	300 Gb/s IM/DD based SDM-WDM-PON with laserless ONUs. Optics Express, 2018, 26, 7949.	3.4	12

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73	Pulse carving using nanocavity-enhanced nonlinear effects in photonic crystal Fano structures. Optics Letters, 2018, 43, 955.	3.3	14
74	Signal reshaping and noise suppression using photonic crystal Fano structures. Optics Express, 2018, 26, 19596.	3.4	21
75	100 Gb/s SDM-PON Using Polarization-Diversity Silicon Micro-Ring Resonator Enhanced DML. Journal of Lightwave Technology, 2018, 36, 5091-5095.	4.6	1
76	Supercontinuum comb sources for broadband communications based on AlGaAs-on-insulator. Proceedings of SPIE, 2017, , .	0.8	1
77	Inhibition of potassium currents is involved in antiarrhythmic effect of moderate ethanol on atrial fibrillation. Toxicology and Applied Pharmacology, 2017, 322, 89-96.	2.8	6
78	120 Gb/s Multi-Channel THz Wireless Transmission and THz Receiver Performance Analysis. IEEE Photonics Technology Letters, 2017, 29, 310-313.	2.5	53
79	Efficient electro-optic modulation in low-loss graphene-plasmonic slot waveguides. Nanoscale, 2017, 9, 15576-15581.	5.6	94
80	Characterization and Optimization of a High-Efficiency AlGaAs-On-Insulator-Based Wavelength Converter for 64- and 256-QAM Signals. Journal of Lightwave Technology, 2017, 35, 3750-3757.	4.6	41
81	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
82	Impact of Signal-Conjugate Wavelength Shift on Optical Phase Conjugation-based Transmission of QAM Signals. , 2017, , .		6
83	Adaptive Rates of High-Spectral-Efficiency WDM/SDM Channels Using PDM-1024-QAM Probabilistic Shaping. , 2017, , .		0
84	Optical time domain demultiplexing using fano resonance in InP photonic crystals. , 2017, , .		4
85	Carrier dynamics analysis in metal-semiconductor-metal device for mid-IR silicon photonics. , 2017, , .		0
86	Ultra-Broadband Optical Signal Processing using AlGaAs-OI Devices. , 2017, , .		0
87	Fiber nonlinearity mitigation of WDM-PDM QPSK/16-QAM signals using fiber-optic parametric amplifiers based multiple optical phase conjugations. Optics Express, 2017, 25, 1618.	3.4	49
88	12 Mode, MIMO-Free OAM Transmission. , 2017, , .		8
89	Regeneration of Phase Unlocked Serial Multiplexed DPSK Signals in a Single Phase Sensitive Amplifier. , 2017, , .		5
90	Single Channel 106 Gbit/s 16QAM Wireless Transmission in the 0.4 THz Band. , 2017, , .		18

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91	All-optical Signal Processing of OTDM and OFDM Signals based on Time-domain Optical Fourier Transformation. , 2017, , .		0
92	10 GHz Frequency Comb Spectral Broadening in AlGaAs-On-Insulator Nano-Waveguide with Ultra-Low Pump Power. , 2017, , .		1
93	An ultra-efficient nonlinear planar integrated platform for optical signal processing and generation. , 2017, , .		1
94	Fiber Nonlinearity Mitigation Using Multiple Optical Phase Conjugations. , 2017, , .		1
95	Photonic crystal Fano resonances for realizing optical switches, lasers, and non-reciprocal elements. , 2017, , .		1
96	Supercontinuum Generation in AlGaAs-On-Insulator Nano-Waveguide at Telecom Wavelengths. , 2016, , .		3
97	THz photonic wireless links with 16-QAM modulation in the 375-450 GHz band. Optics Express, 2016, 24, 23777.	3.4	44
98	Phase-sensitive four-wave mixing in AlGaAs-on-insulator nano-waveguides. , 2016, , .		2
99	An ultra-efficient nonlinear platform: AlGaAs-on-insulator. , 2016, , .		0
100	260 Gbit/s photonic-wireless link in the THz band. , 2016, , .		47
101	Experimental analysis of THz receiver performance in 80 Gbit/s communication system. , 2016, , .		3
102	160 Gbit/s photonics wireless transmission in the 300-500 GHz band. APL Photonics, 2016, 1, .	5.7	110
103	Nonlinear Optics in AlGaAs on Insulator. , 2016, , .		0
104	Advanced optical signal processing of broadband parallel data signals. , 2016, , .		0
105	Linear all-optical signal processing using silicon micro-ring resonators. Frontiers of Optoelectronics, 2016, 9, 362-376.	3.7	5
106	THz Wireless Transmission Systems Based on Photonic Generation of Highly Pure Beat-Notes. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	20
107	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
108	All-Optical Switching Improvement Using Photonic-Crystal Fano Structures. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	14

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109	Single-Source AlGaAs Frequency Comb Transmitter for 661 Tbit/s Data Transmission in a 30-core Fiber. , 2016, , .		15
110	Bidirectional 120 Gbps SDM-WDM-PON with Colourless ONU using 10 Gbps Optical Components without DSP. , 2016, , .		7
111	Fiber Nonlinearity Compensation by Repeated Phase Conjugation in 2.048-Tbit/s WDM transmission of PDM 16-QAM Channels. , 2016, , .		11
112	Photonic crystal Fano structures and their application to ultrafast switching and lasers. , 2016, , .		1
113	Advanced Optical Signal Processing using Time Lens based Optical Fourier Transformation. , 2016, , .		0
114	Broadband and Efficient Dual-Pump Four-Wave-Mixing in AlGaAs-On-Insulator Nano-Waveguides. , 2016, , .		2
115	Polarization Diversity Silicon Microring Resonator for WDM Add-Drop Filtering. , 2016, , .		1
116	Silicon photonics for multicore fiber communication. , 2016, , .		1
117	Silicon nanowires for ultra-fast and ultrabroadband optical signal processing. , 2015, , .		0
118	Experimental Demonstration of Optical Switching of Tbit/s Data Packets for High Capacity Short-Range Networks. , 2015, , .		0
119	Effective Electro-Optical Modulation with High Extinction Ratio by a Grapheneâ€“Silicon Microring Resonator. Nano Letters, 2015, 15, 4393-4400.	9.1	196
120	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
121	Ultrafast low-energy all-optical switching using a photonic-crystal asymmetric Fano structure. , 2015, , .		3
122	All-optical WDM regeneration of DPSK signals using optical fourier transformation and phase sensitive amplification. , 2015, , .		5
123	Cavity-less sub-picosecond pulse generation for the demultiplexing of a 640 Gbaud OTDM signal. , 2015, , .		0
124	Wavelength Conversion of a 640 Gbit/s DPSK Nyquist Channel Using a Low-Loss Silicon Nanowire. , 2015, , .		1
125	All-Optical Ultra-High-Speed OFDM to Nyquist-WDM Conversion. , 2015, , .		3
126	CRL4B promotes tumorigenesis by coordinating with SUV39H1/HP1/DNMT3A in DNA methylation-based epigenetic silencing. Oncogene, 2015, 34, 104-118.	5.9	84

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127	Nonreciprocal transmission in a nonlinear photonic-crystal Fano structure with broken symmetry. Laser and Photonics Reviews, 2015, 9, 241-247.	8.7	125
128	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
129	Parametric Amplification, Wavelength Conversion, and Phase Conjugation of a 2.048-Tbit/s WDM PDM 16-QAM Signal. Journal of Lightwave Technology, 2015, 33, 1286-1291.	4.6	34
130	Ultrafast all-optical modulation using a photonic-crystal Fano structure with broken symmetry. Optics Letters, 2015, 40, 2357.	3.3	36
131	Increase in data capacity utilising dimensions of wavelength, space, time, polarisation and multilevel modulation using a single laser. , 2015, , .		0
132	AlGaAs-On-Insulator Nanowire with 750 nm FWM Bandwidth, -9 dB CW Conversion Efficiency, and Ultrafast Operation Enabling Record Tbaud Wavelength Conversion. , 2015, , .		12
133	Energy-Efficient Optical Signal Processing Using Optical Time Lenses. Springer Series in Optical Sciences, 2015, , 261-289.	0.7	0
134	High-Speed Optical Signal Processing Using Time Lenses. , 2015, , .		0
135	Effective carrier sweepout in a silicon waveguide by a metal-semiconductor-metal structure. , 2015, , .		3
136	Experimental demonstration of non-reciprocal transmission in a nonlinear photonic-crystal Fano structure. , 2015, , .		0
137	Optical Systems for Ultra-High-Speed TDM Networking. Photonics, 2014, 1, 83-94.	2.0	2
138	Conversion of a DWDM signal to a single Nyquist channel based on a complete optical Fourier transformation. , 2014, , .		3
139	All-optical OFDM system using a wavelength selective switch based transmitter and a spectral magnification based receiver. , 2014, , .		7
140	Parametric amplification and wavelength conversion of a 2.048-Tbit/s WDM PDM 16-QAM signal. , 2014, , .		2
141	All-optical signal processing using silicon devices. , 2014, , .		1
142	Fiber Nonlinearity Compensation of an 8-channel WDM PDM-QPSK Signal using Multiple Phase Conjugations. , 2014, , .		28
143	320 Gb/s Nyquist OTDM received by polarization-insensitive time-domain OFT. Optics Express, 2014, 22, 110.	3.4	78
144	4 Ã— 160-Gbit/s multi-channel regeneration in a single fiber. Optics Express, 2014, 22, 11456.	3.4	12

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145	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
146	Low-power 10 Gbit/s RZ-OOK all-optical modulation using a novel photonic-crystal Fano switch. , 2014, , .		1
147	Fano resonance control in a photonic crystal structure and its application to ultrafast switching. Applied Physics Letters, 2014, 105, .	3.3	107
148	Generation of 1024-Tb/s Nyquist-WDM phase-conjugated twin vector waves by a polarization-insensitive optical parametric amplifier for fiber-nonlinearity-tolerant transmission. Optics Express, 2014, 22, 6478.	3.4	17
149	Efficient ultra-fast all-optical wavelength converters with Ti:PPLN waveguides. , 2014, , .		1
150	On-chip wavelength switch based on thermally tunable discrete four-wave mixing in a silicon waveguide. , 2014, , .		0
151	Single Source 5-dimensional (Space-, Wavelength-, Time-, Polarization-, Quadrature-) 43 Tbit/s Data Transmission of 6 SDM Ã— 6 WDM Ã— 1.2 Tbit/s Nyquist-OTDM-PDM-QPSK. , 2014, , .		9
152	Ultra-High-Speed Optical Time Division Multiplexing. , 2013, , 641-707.		1
153	640 GBd Phase-Correlated OTDM NRZ-OOK Generation and Field Trial Transmission. Journal of Lightwave Technology, 2013, 31, 696-701.	4.6	7
154	Simultaneous regeneration of two 160 Gbit/s WDM channels in a single highly nonlinear fiber. Optics Express, 2013, 21, 2862.	3.4	1
155	Functionalized Layered Double Hydroxide Nanoparticles Conjugated with Disulfide-Linked Polycation Brushes for Advanced Gene Delivery. Bioconjugate Chemistry, 2013, 24, 968-978.	3.6	81
156	Simultaneous Regeneration of 4Ã—160-Gbit/s WDM and PDM Channels in a Single Highly Nonlinear Fiber. , 2013, , .		2
157	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
158	Parametric amplification and phase preserving amplitude regeneration of a 640 Gbit/s RZ-DPSK signal. Optics Express, 2013, 21, 25944.	3.4	14
159	All-Optical Phase-Preserving Amplitude Regeneration of a 640 Gbit/s RZ-DPSK Signal. , 2013, , .		1
160	The time lens concept applied to ultra-high-speed OTDM signal processing. , 2013, , .		2
161	Detection of 320 Gb/s Nyquist OTDM by Polarization-insensitive Time-domain Optical Fourier Transformation. , 2013, , .		1
162	Wavelength Preserving Optical Serial-to-Parallel Conversion. , 2013, , .		3

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163	1.28 Tbaud Nyquist Signal Transmission using Time-Domain Optical Fourier Transformation based Receiver. , 2013, , .		17
164	Nyquist filtering of 160 GBaud NRZ-like DPSK signal. , 2013, , .		3
165	Spectral compression of a DWDM grid using optical time-lenses. , 2013, , .		3
166	Parametric Amplification of a 640 Gbit/s RZ-DPSK Signal. , 2013, , .		1
167	Experimental Demonstration of Phase Sensitive Parametric Processes in a Nano-Engineered Silicon Waveguide. , 2013, , .		1
168	All-optical broadcast and multicast technologies based on PPLN waveguide. Chinese Optics Letters, 2013, 11, 110604-110607.	2.9	0
169	Generation of 1.024-Tb/s Nyquist-WDM Phase-Conjugated Twin Vector Waves through Polarization-Insensitive Optical Parametric Amplification Enabling Transmission over 4000-km Dispersion-Managed TWRS Fiber. , 2013, , .		0
170	All-Optical 40 Gbit/s Regenerative Wavelength Conversion Based on Cross-Phase Modulation in a Silicon Nanowire. , 2013, , .		3
171	Polarization insensitive wavelength conversion in a dispersion-engineered silicon waveguide. Optics Express, 2012, 20, 16374.	3.4	25
172	Ultra-high-speed optical signal processing of serial data signals. , 2012, , .		2
173	40 Gbit/s serial data signal regeneration using self-phase modulation in a silicon nanowire. , 2012, , .		3
174	160 Gbit/s optical packet switching using a silicon chip. , 2012, , .		3
175	All-optical 2R regeneration of a 160-Gbit/s RZOOK serial data signal using a FOPA. , 2012, , .		4
176	Broadband Polarization-Insensitive Wavelength Conversion Based on Non-Degenerate Four-Wave Mixing in a Silicon Nanowire. , 2012, , .		0
177	Demonstration of Cascaded In-Line Single-Pump Fiber Optical Parametric Amplifiers in Recirculating Loop Transmission. , 2012, , .		8
178	Tunable All-Optical Wavelength Conversion Based on Cascaded SHG/DFG in a Ti:PPLN Waveguide Using a Single CW Control Laser. IEEE Photonics Journal, 2012, 4, 1396-1400.	2.0	10
179	Preparation and evaluation of well-defined hemocompatible layered double hydroxide-poly(sulfobetaine) nanohybrids. Journal of Materials Chemistry, 2012, 22, 15362.	6.7	53
180	Linear signal processing using silicon micro-ring resonators. , 2012, , .		1

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181	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
182	Nonlinear Optical Signal Processing for Tbit/s Ethernet Applications. International Journal of Optics, 2012, 2012, 1-14.	1.4	6
183	Optical parametric wavelength conversion for 53.5â€Gb/s RZâ€DPSK signal with phase preserved amplitude regeneration. Microwave and Optical Technology Letters, 2012, 54, 2172-2175.	1.4	3
184	OTDM-to-WDM Conversion Based on Time-to-Frequency Mapping by Time-Domain Optical Fourier Transformation. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 681-688.	2.9	54
185	Silicon Photonics for Signal Processing of Tbit/s Serial Data Signals. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 996-1005.	2.9	43
186	Two-Copy Wavelength Conversion of an 80 Gbit/s Serial Data Signal Using Cross-Phase Modulation in a Silicon Nanowire and Detailed Pump-Probe Characterisation. , 2012, , .		4
187	640 Gbaud NRZ-OOK data signal generation and 1.19 Tbit/s PDM-NRZ-OOK field trial transmission. , 2012, , .		5
188	Ultrafast Nonlinear Signal Processing in Silicon Waveguides. , 2012, , .		3
189	640 Gbaud NRZ-OOK data signal generation and 1.19 Tbit/s PDM-NRZ-OOK field trial transmission. , 2012, , .		5
190	Recent Advances in Ultra-High-Speed Optical Signal Processing. , 2012, , .		3
191	Nonlinear Optical Functions in Crystalline and Amorphous Silicon-on-Insulator Nanowires. , 2012, , .		0
192	Polarization Insensitive One-to-Six WDM Multicasting in a Silicon Nanowire. , 2012, , .		0
193	Simultaneous Regeneration of Two 160 Gbit/s WDM Channels in a Single Highly Nonlinear Fiber. , 2012, , .		1
194	160 Gb/s Silicon All-Optical Data Modulator based on Cross Phase Modulation. , 2012, , .		1
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