

Xian Zhou

List of Publications by Year in descending order

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70
papers

1,288
citations

516710

16
h-index

361022

35
g-index

70
all docs

70
docs citations

70
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital Signal Processing for Short-Reach Optical Communications: A Review of Current Technologies and Future Trends. <i>Journal of Lightwave Technology</i> , 2018, 36, 377-400.	4.6	353
2	Experimental study of PAM-4, CAP-16, and DMT for 100 Gb/s Short Reach Optical Transmission Systems. <i>Optics Express</i> , 2015, 23, 1176.	3.4	277
3	140-Gb/s 20-km Transmission of PAM-4 Signal at 1.3 μm for Short Reach Communications. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1757-1760.	2.5	92
4	Mid-Infrared Octave-Spanning Supercontinuum and Frequency Comb Generation in a Suspended Germanium-Membrane Ridge Waveguide. <i>Journal of Lightwave Technology</i> , 2017, 35, 2994-3002.	4.6	46
5	Algorithms for Blind Separation and Estimation of Transmitter and Receiver IQ Imbalances. <i>Journal of Lightwave Technology</i> , 2019, 37, 2201-2208.	4.6	44
6	Modulation-format-independent blind phase search algorithm for coherent optical square M-QAM systems. <i>Optics Express</i> , 2014, 22, 24044.	3.4	35
7	112 Gb/s transmission over 80 km SSMF using PDM-PAM4 and coherent detection without optical amplifier. <i>Optics Express</i> , 2016, 24, 17359.	3.4	29
8	Theoretical Analysis of Phase Noise Induced by Laser Linewidth and Mismatch Length in Self-Homodyne Coherent Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 1312-1321.	4.6	29
9	Transmitter and receiver DSP for 112 Gbit/s PAM-4 amplifier-less transmissions using 25G-class EML and APD. <i>Optics Express</i> , 2018, 26, 22673.	3.4	27
10	Hybrid Graphene-Silicon Based Polarization-Insensitive Electro-Absorption Modulator with High-Modulation Efficiency and Ultra-Broad Bandwidth. <i>Nanomaterials</i> , 2019, 9, 157.	4.1	22
11	Efficient Joint Carrier Frequency Offset and Phase Noise Compensation Scheme for High-Speed Coherent Optical OFDM Systems. <i>Journal of Lightwave Technology</i> , 2013, 31, 1755-1761.	4.6	21
12	Surface plasmon resonance-based silicon dual-core photonic crystal fiber polarization beam splitter at the mid-infrared spectral region. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2221.	2.1	19
13	Polarization-diversity receiver using remotely delivered local oscillator without optical polarization control. <i>Optics Express</i> , 2020, 28, 22882.	3.4	19
14	Highly coherent supercontinuum generation in a polarization-maintaining CS ₂ -core photonic crystal fiber. <i>Applied Optics</i> , 2019, 58, 1386.	1.8	18
15	Low-Complexity Carrier Phase Recovery for Square M-QAM Based on S-BPS Algorithm. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1863-1866.	2.5	17
16	Downhole Microseismic Monitoring Using Time-Division Multiplexed Fiber-Optic Accelerometer Array. <i>IEEE Access</i> , 2020, 8, 120104-120113.	4.2	17
17	A comprehensive theoretical model for on-chip microring-based photonic fractional differentiators. <i>Scientific Reports</i> , 2015, 5, 14216.	3.3	16
18	Experimental demonstration of 608Gbit/s short reach transmission employing half-cycle 16QAM Nyquist-SCM signal and direct detection with 25Gbps EML. <i>Optics Express</i> , 2016, 24, 25057.	3.4	15

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19	Chalcogenide-Glass Nested Anti-Resonant Nodeless Fibers in Mid-Infrared Region. Journal of Lightwave Technology, 2018, 36, 5244-5253.	4.6	15
20	Mid-Infrared Self-Similar Pulse Compression in a Tapered Tellurite Photonic Crystal Fiber and Its Application in Supercontinuum Generation. Journal of Lightwave Technology, 2018, 36, 3514-3521.	4.6	13
21	Interference-Fading-Suppressed Pulse-Coding \hat{I} -OTDR Using Spectrum Extraction and Rotated-Vector-Sum Method. IEEE Photonics Journal, 2021, 13, 1-6.	2.0	13
22	On-chip integratable all-optical quantizer using strong cross-phase modulation in a silicon-organic hybrid slot waveguide. Scientific Reports, 2016, 6, 19528.	3.3	11
23	Theoretical CSPR Analysis and Performance Comparison for Four Single-Sideband Modulation Schemes With Kramers-Kronig Receiver. IEEE Access, 2019, 7, 166257-166267.	4.2	9
24	Accurate BER Estimation Scheme Based on K -Means Clustering Assisted Gaussian Approach for Arbitrary Modulation Format. Journal of Lightwave Technology, 2020, 38, 2152-2157.	4.6	9
25	Comprehensive analysis of passive generation of parabolic similaritons in tapered hydrogenated amorphous silicon photonic wires. Scientific Reports, 2017, 7, 3814.	3.3	8
26	Slow-Nonlinearity Assisted Supercontinuum Generation in a CS_2 -Core Photonic Crystal Fiber. IEEE Journal of Quantum Electronics, 2019, 55, 1-9.	1.9	8
27	Coherent BOTDA Using Phase- and Polarization-Diversity Heterodyne Detection and Embedded Digital Signal Processing. IEEE Sensors Journal, 2017, 17, 3728-3734.	4.7	7
28	Multi-octave mid-infrared supercontinuum and frequency comb generation in a suspended As_2Se_3 ridge waveguide. Applied Optics, 2019, 58, 8404.	1.8	7
29	Polarization-Multiplexed DMT With IM-DD Using 2 \times 2 MIMO Processing Based on SOP Estimation and MPBI Elimination. IEEE Photonics Journal, 2015, 7, 1-12.	2.0	6
30	Simple structure dual-core photonic crystal fiber polarization beam splitter covering the O α -E α -S α -C α -L α -U band based on the surface plasmon resonance effect. Journal of the America B: Optical Physics, 2021, 38, F50.		6
31	Dispersion-engineered T-type germanium waveguide for mid-infrared supercontinuum and frequency comb generations in all-normal dispersion region. OSA Continuum, 2020, 3, 2320.	1.8	6
32	Mismatch Length Estimation of Self-Homodyne Coherent Optical Systems by Using Carrier-Pilot-Assist Method. , 2022, , .		6
33	Ge $_{20}$ Sb $_{15}$ Se $_{65}$ glass-based ultra-bandwidth X-shaped dual-core photonic crystal fiber polarization beam splitter with an air hole filled gold rod. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1580.	2.1	6
34	Self-Similar Propagation and Compression of the Parabolic Pulse in Silicon Waveguide. Journal of Lightwave Technology, 2019, , 1-1.	4.6	5
35	Single Channel 50 Gbit/s Transmission Over 40 km SSMF Without Optical Amplification and In-Line Dispersion Compensation Using a Single-End PD-Based PDM-SSB-DMT System. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	4
36	Theoretical and numerical analyses for PDM-IM signals using Stokes vector receivers. Science China Information Sciences, 2020, 63, 1.	4.3	4

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37	Common-mode noise self-suppressed 3-component fiber optic accelerometer based on low-reflectivity Bragg gratings. <i>Optics Letters</i> , 2021, 46, 1596.	3.3	4
38	Theoretical analysis of PAM-N and M-QAM BER computation with single-sideband signal. <i>Science China Information Sciences</i> , 2021, 64, 1.	4.3	4
39	Demonstration of Fiber-Optic Seismic Sensor With Improved Dynamic Response in Oilfield Application. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	4
40	Demonstration of Intermodal Four-Wave Mixing by Femtosecond Pulses Centered at 1550 nm in an Air-Silica Photonic Crystal Fiber. <i>Journal of Lightwave Technology</i> , 2017, 35, 2385-2390.	4.6	3
41	Efficient Spectral Compression of Wavelength-Shifting Soliton and Its Application in Integratable All-Optical Quantization. <i>IEEE Photonics Journal</i> , 2019, 11, 1-15.	2.0	3
42	Analysis and Suppression of Aliased Noises in Time-Division-Multiplexing Interferometric Fiber-Optic Sensor Array. <i>Journal of Lightwave Technology</i> , 2022, 40, 2670-2678.	4.6	3
43	4Å–112 Gb/s/Å MCF Transmission Using Field PDM-PAM4 and Coherent Detection for Datacenter Applications. <i>IEEE Photonics Journal</i> , 2022, 14, 1-7.	2.0	3
44	40Gbps double-sided multiband OFDM-PON based on polarization interleaving and direct detection. , 2014, , .		2
45	Deep-ultraviolet second-harmonic generation by combined degenerate four-wave mixing and surface nonlinearity polarization in photonic crystal fiber. <i>Scientific Reports</i> , 2017, 7, 9224.	3.3	2
46	Experimental study of single channel 100Å Gbit/s PAM4 transmission over 40Å km using 17Å GHz EML and APD at O band. <i>Optical Fiber Technology</i> , 2018, 45, 411-414.	2.7	2
47	Generation of parabolic pulse in a dispersion and nonlinearity jointly engineered silicon waveguide taper. <i>Optics Communications</i> , 2019, 448, 48-54.	2.1	2
48	Downhole Microseismic Monitoring Using FOSS and Its Field Test Comparison With Moving-Coil Geophone. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	2
49	Pulse Train Triggered Single Dissipative Kerr Soliton in Microresonator and Application in Terahertz Rate Optical Clock Recovery. <i>Journal of Lightwave Technology</i> , 2021, 39, 3511-3520.	4.6	2
50	Experimental demonstration of low complexity hybrid FFE algorithm for strictly band-limited IM/DD system. <i>Optics Communications</i> , 2022, 505, 127485.	2.1	2
51	Nonlinear correction of frequency-modulated continuous-wave lidar frequency modulation based on singular value decomposition-least square algorithm. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	2
52	The Pre-configured Kramers-Kronig Scheme. , 2020, , .		2
53	High-speed PON downstream transmission based on pre-configured KK scheme with CD pre-compensation and direct detection. <i>Optics Communications</i> , 2022, 510, 127906.	2.1	2
54	PDM-SSB-OFDM transmission over 80km SSMF based on a single photodetector at C-band. , 2017, , .		1

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55	Discrete Fourier domain harmonically mode locked laser by mode hopping modulation. , 2019, , .		1
56	Mid-Infrared Supercontinuum and Frequency Comb Generations by Different Optical Modes in a Multimode Chalcogenide Strip Waveguide. IEEE Access, 2020, 8, 202022-202031.	4.2	1
57	Passive Generation of the Multi-Wavelength Parabolic Pulses in Tapered Silicon Nanowires. IEEE Access, 2020, 8, 77631-77641.	4.2	1
58	Highly coherent and multi-octave mid-infrared supercontinuum generations in a reverse-strip AlGaAs waveguide with three zero-dispersion wavelengths. Applied Optics, 2021, 60, 9994.	1.8	1
59	112-Gbit/s PDM-PAM4 transmission over 80-km SMF using digital coherent detection without optical amplifier. , 2016, , .		0
60	Liquid-core photonic crystal fiber based plasmonic sensor with selective analyte channels. , 2017, , .		0
61	Mid-infrared self-similar pulse compression of picosecond pulse in a ridge silicon waveguide taper. , 2017, , .		0
62	Coupled W-type four-core fiber with low differential mode group delay for C+L band. , 2017, , .		0
63	Spectral Compression of Mid-infrared Pulse in a Suspended Silicon Waveguide Taper. , 2018, , .		0
64	Adaptive Equalizer for PAM-4 Signal in Data Center Using Scalable XGBoost. , 2019, , .		0
65	Ultra-High Modulation Efficiency and Polarization-Insensitive Cadmium Oxide-Silicon Based Electro-Absorption Modulator. , 2019, , .		0
66	C band 112ÂGb/s PAM4 signal transmission over 320Âkm with a quasi-linear double-side electro-absorption modulated laser (DS-EML). Optical Fiber Technology, 2021, 61, 102407.	2.7	0
67	Multiplexing scheme for digital signal processing-assisted coherent radio over fiber system. OSA Continuum, 2021, 4, 1381.	1.8	0
68	Performance of Lasers with Flick FM Noise in Self-Homodyne Coherent Optical Systems. , 2021, , .		0
69	Phase Noise Compensation in Optical Carrier-Assisted Single-sideband and Direct Detection PAM-4 System. , 2021, , .		0
70	Intelligent Microseismic Events Recognition in Fiber-Optic Microseismic Monitoring System Compared With Electronic One. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	0