

# 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	Downhole Microseismic Monitoring Using FOSS and Its Field Test Comparison With Moving-Coil Geophone. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	2
2	Experimental demonstration of low complexity hybrid FFE algorithm for strictly band-limited IM/DD system. Optics Communications, 2022, 505, 127485.	2.1	2
3	Demonstration of Fiber-Optic Seismic Sensor With Improved Dynamic Response in Oilfield Application. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	4
4	Analysis and Suppression of Aliased Noises in Time-Division-Multiplexing Interferometric Fiber-Optic Sensor Array. Journal of Lightwave Technology, 2022, 40, 2670-2678.	4.6	3
5	High-speed PON downstream transmission based on pre-configured KK scheme with CD pre-compensation and direct detection. Optics Communications, 2022, 510, 127906.	2.1	2
6	4Å—112 Gb/sÏ» MCF Transmission Using Field PDM-PAM4 and Coherent Detection for Datacenter Applications. IEEE Photonics Journal, 2022, 14, 1-7.	2.0	3
7	Intelligent Microseismic Events Recognition in Fiber-Optic Microseismic Monitoring System Compared With Electronic One. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	0
8	Mismatch Length Estimation of Self-Homodyne Coherent Optical Systems by Using Carrier-Pilot-Assist Method. , 2022, , .		6
9	Ge<sub>20</sub>Sb<sub>15</sub>Se<sub>65</sub> 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
10	C band 112ÅGb/s PAM4 signal transmission over 320Åkm with a quasi-linear double-side electro-absorption modulated laser (DS-EML). Optical Fiber Technology, 2021, 61, 102407.	2.7	0
11	Common-mode noise self-suppressed 3-component fiber optic accelerometer based on low-reflectivity Bragg gratings. Optics Letters, 2021, 46, 1596.	3.3	4
12	Theoretical Analysis of Phase Noise Induced by Laser Linewidth and Mismatch Length in Self-Homodyne Coherent Systems. Journal of Lightwave Technology, 2021, 39, 1312-1321.	4.6	29
13	Multiplexing scheme for digital signal processing-assisted coherent radio over fiber system. OSA Continuum, 2021, 4, 1381.	1.8	0
14	Theoretical analysis of PAM-N and M-QAM BER computation with single-sideband signal. Science China Information Sciences, 2021, 64, 1.	4.3	4
15	Pulse Train Triggered Single Dissipative Kerr Soliton in Microresonator and Application in Terahertz Rate Optical Clock Recovery. Journal of Lightwave Technology, 2021, 39, 3511-3520.	4.6	2
16	Simple structure dual-core photonic crystal fiber polarization beam splitter covering the Oâ€‰+â€‰Eâ€‰+â€‰Sâ€‰+â€‰Câ€‰+â€‰Lâ€‰+â€‰U band based on the surface plasmon resonance effect. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F50.		6
17	Performance of Lasers with Flick FM Noise in Self-Homodyne Coherent Optical Systems. , 2021, , .		0
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Phase Noise Compensation in Optical Carrier-Assisted Single-sideband and Direct Detection PAM-4 System. , 2021, , .		0
21	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
22	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
23	Theoretical and numerical analyses for PDM-IM signals using Stokes vector receivers. Science China Information Sciences, 2020, 63, 1.	4.3	4
24	Passive Generation of the Multi-Wavelength Parabolic Pulses in Tapered Silicon Nanowires. IEEE Access, 2020, 8, 77631-77641.	4.2	1
25	Downhole Microseismic Monitoring Using Time-Division Multiplexed Fiber-Optic Accelerometer Array. IEEE Access, 2020, 8, 120104-120113.	4.2	17
26	Surface plasmon resonance-based silicon dual-core photonic crystal fiber polarization beam splitter at the mid-infrared spectral region. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2221.	2.1	19
27	Polarization-diversity receiver using remotely delivered local oscillator without optical polarization control. Optics Express, 2020, 28, 22882.	3.4	19
28	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
29	Nonlinear correction of frequency-modulated continuous-wave lidar frequency modulation based on singular value decomposition-least square algorithm. Optical Engineering, 2020, 59, 1.	1.0	2
30	The Pre-configured Kramers-Kronig Scheme. , 2020, , .		2
31	Discrete Fourier domain harmonically mode locked laser by mode hopping modulation. , 2019, , .		1
32	Adaptive Equalizer for PAM-4 Signal in Data Center Using Scalable XGBoost. , 2019, , .		0
33	Ultra-High Modulation Efficiency and Polarization-Insensitive Cadmium Oxide-Silicon Based Electro-Absorption Modulator. , 2019, , .		0
34	Hybrid Graphene-Silicon Based Polarization-Insensitive Electro-Absorption Modulator with High-Modulation Efficiency and Ultra-Broad Bandwidth. Nanomaterials, 2019, 9, 157.	4.1	22
35	Generation of parabolic pulse in a dispersion and nonlinearity jointly engineered silicon waveguide taper. Optics Communications, 2019, 448, 48-54.	2.1	2
36	Slow-Nonlinearity Assisted Supercontinuum Generation in a CS <sub>2</sub> -Core Photonic Crystal Fiber. IEEE Journal of Quantum Electronics, 2019, 55, 1-9.	1.9	8

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37	Self-Similar Propagation and Compression of the Parabolic Pulse in Silicon Waveguide. Journal of Lightwave Technology, 2019, , 1-1.	4.6	5
38	Efficient Spectral Compression of Wavelength-Shifting Soliton and Its Application in Integratable All-Optical Quantization. IEEE Photonics Journal, 2019, 11, 1-15.	2.0	3
39	Algorithms for Blind Separation and Estimation of Transmitter and Receiver IQ Imbalances. Journal of Lightwave Technology, 2019, 37, 2201-2208.	4.6	44
40	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
41	Highly coherent supercontinuum generation in a polarization-maintaining CS <sub>2</sub> -core photonic crystal fiber. Applied Optics, 2019, 58, 1386.	1.8	18
42	Multi-octave mid-infrared supercontinuum and frequency comb generation in a suspended As <sub>2</sub> Se <sub>3</sub> ridge waveguide. Applied Optics, 2019, 58, 8404.	1.8	7
43	Digital Signal Processing for Short-Reach Optical Communications: A Review of Current Technologies and Future Trends. Journal of Lightwave Technology, 2018, 36, 377-400.	4.6	353
44	Spectral Compression of Mid-infrared Pulse in a Suspended Silicon Waveguide Taper. , 2018, , .		0
45	Chalcogenide-Glass Nested Anti-Resonant Nodeless Fibers in Mid-Infrared Region. Journal of Lightwave Technology, 2018, 36, 5244-5253.	4.6	15
46	Experimental study of single channel 100 Gbit/s PAM4 transmission over 40 km using 17 GHz EML and APD at O band. Optical Fiber Technology, 2018, 45, 411-414.	2.7	2
47	Transmitter and receiver DSP for 112 Gbit/s PAM-4 amplifier-less transmissions using 25G-class EML and APD. Optics Express, 2018, 26, 22673.	3.4	27
48	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
49	Demonstration of Intermodal Four-Wave Mixing by Femtosecond Pulses Centered at 1550 nm in an Air-Silica Photonic Crystal Fiber. Journal of Lightwave Technology, 2017, 35, 2385-2390.	4.6	3
50	Coherent BOTDA Using Phase- and Polarization-Diversity Heterodyne Detection and Embedded Digital Signal Processing. IEEE Sensors Journal, 2017, 17, 3728-3734.	4.7	7
51	Deep-ultraviolet second-harmonic generation by combined degenerate four-wave mixing and surface nonlinearity polarization in photonic crystal fiber. Scientific Reports, 2017, 7, 9224.	3.3	2
52	Mid-Infrared Octave-Spanning Supercontinuum and Frequency Comb Generation in a Suspended Germanium-Membrane Ridge Waveguide. Journal of Lightwave Technology, 2017, 35, 2994-3002.	4.6	46
53	Comprehensive analysis of passive generation of parabolic similaritons in tapered hydrogenated amorphous silicon photonic wires. Scientific Reports, 2017, 7, 3814.	3.3	8
54	Liquid-core photonic crystal fiber based plasmonic sensor with selective analyte channels. , 2017, , .		0

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55	Mid-infrared self-similar pulse compression of picosecond pulse in a ridge silicon waveguide taper. , 2017, , .		0
56	PDM-SSB-OFDM transmission over 80km SSMF based on a single photodetector at C-band. , 2017, , .		1
57	Coupled W-type four-core fiber with low differential mode group delay for C+L band. , 2017, , .		0
58	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
59	Experimental demonstration of 608Gbit/s short reach transmission employing half-cycle 16QAM Nyquist-SCM signal and direct detection with 25Gbps EML. Optics Express, 2016, 24, 25057.	3.4	15
60	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
61	112-Gbit/s PDM-PAM4 transmission over 80-km SMF using digital coherent detection without optical amplifier. , 2016, , .		0
62	112 Gb/s transmission over 80 km SSMF using PDM-PAM4 and coherent detection without optical amplifier. Optics Express, 2016, 24, 17359.	3.4	29
63	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
64	A comprehensive theoretical model for on-chip microring-based photonic fractional differentiators. Scientific Reports, 2015, 5, 14216.	3.3	16
65	140-Gb/s 20-km Transmission of PAM-4 Signal at 1.3 $\mu\text{m}$ for Short Reach Communications. IEEE Photonics Technology Letters, 2015, 27, 1757-1760.	2.5	92
66	Experimental study of PAM-4, CAP-16, and DMT for 100 Gb/s Short Reach Optical Transmission Systems. Optics Express, 2015, 23, 1176.	3.4	277
67	40Gbps double-sided multiband OFDM-PON based on polarization interleaving and direct detection. , 2014, , .		2
68	Modulation-format-independent blind phase search algorithm for coherent optical square M-QAM systems. Optics Express, 2014, 22, 24044.	3.4	35
69	Low-Complexity Carrier Phase Recovery for Square M-QAM Based on S-BPS Algorithm. IEEE Photonics Technology Letters, 2014, 26, 1863-1866.	2.5	17
70	Efficient Joint Carrier Frequency Offset and Phase Noise Compensation Scheme for High-Speed Coherent Optical OFDM Systems. Journal of Lightwave Technology, 2013, 31, 1755-1761.	4.6	21