

Zhaohui Li

List of Publications by Year in descending order

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122
papers

2,639
citations

236833

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214721

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124
all docs

124
docs citations

124
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive individual orbital angular momentum channels for multiplexing enabled by Damman gratings. <i>Light: Science and Applications</i> , 2015, 4, e257-e257.	7.7	426
2	High-performance coherent optical modulators based on thin-film lithium niobate platform. <i>Nature Communications</i> , 2020, 11, 3911.	5.8	245
3	Ultra-broadband on-chip twisted light emitter for optical communications. <i>Light: Science and Applications</i> , 2018, 7, 18001-18001.	7.7	136
4	Advanced modulation formats for 400-Gbps short-reach optical inter-connection. <i>Optics Express</i> , 2015, 23, 492.	1.7	99
5	Approach to multiplexing fiber communication with cylindrical vector beams. <i>Optics Letters</i> , 2017, 42, 2579.	1.7	65
6	Electrochemical Surface Plasmon Resonance Fiber-Optic Sensor: <i>In Situ</i> Detection of Electroactive Biofilms. <i>Analytical Chemistry</i> , 2016, 88, 7609-7616.	3.2	64
7	Spin-Dependent Optical Geometric Transformation for Cylindrical Vector Beam Multiplexing Communication. <i>ACS Photonics</i> , 2018, 5, 3478-3484.	3.2	58
8	Beam wander relieved orbital angular momentum communication in turbulent atmosphere using Bessel beams. <i>Scientific Reports</i> , 2017, 7, 42276.	1.6	55
9	High-Temperature Sensor Based on Fabry-Perot Interferometer in Microfiber Tip. <i>Sensors</i> , 2018, 18, 202.	2.1	53
10	A digitally generated ultrafine optical frequency comb for spectral measurements with 0.01-pm resolution and 0.7-Ås response time. <i>Light: Science and Applications</i> , 2015, 4, e300-e300.	7.7	51
11	Comparison of Bit-Loading DMT and Pre-Equalized DFT-Spread DMT for 2-km Optical Interconnect System. <i>Journal of Lightwave Technology</i> , 2019, 37, 2194-2200.	2.7	50
12	High-performance polarization management devices based on thin-film lithium niobate. <i>Light: Science and Applications</i> , 2022, 11, 93.	7.7	48
13	Adaptive Channel-Matched Detection for C-Band 64-Gbit/s Optical OOK System Over 100-km Dispersion-Uncompensated Link. <i>Journal of Lightwave Technology</i> , 2020, 38, 5048-5055.	2.7	42
14	Transmission of 100-Gb/s DDO-OFDM/OQAM over 320-km SSMF with a single photodiode. <i>Optics Express</i> , 2014, 22, 12079.	1.7	41
15	Optofluidic tunable lenses using laser-induced thermal gradient. <i>Lab on A Chip</i> , 2016, 16, 104-111.	3.1	38
16	100 Gbit/s PAM4 signal transmission and reception for 2-km interconnect with adaptive notch filter for narrowband interference. <i>Optics Express</i> , 2018, 26, 24066.	1.7	37
17	Imaging biological tissue with high-throughput single-pixel compressive holography. <i>Nature Communications</i> , 2021, 12, 4712.	5.8	34
18	Single-Layer Aberration-Compensated Flat Lens for Robust Wide-Angle Imaging. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000017.	4.4	33

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19	OSNR Monitoring for RZ-DQPSK Systems Using Half-Symbol Delay-Tap Sampling Technique. IEEE Photonics Technology Letters, 2010, 22, 823-825.	1.3	32
20	Linear photonic radio frequency phase shifter using a differential-group-delay element and an optical phase modulator. Optics Letters, 2010, 35, 1881.	1.7	32
21	Mode Division Multiplexing Based on Ring Core Optical Fibers. IEEE Journal of Quantum Electronics, 2018, 54, 1-18.	1.0	32
22	100G PAM-6 and PAM-8 Signal Transmission Enabled by Pre-Chirping for 10-km Intra-DCI Utilizing MZM in C-band. Journal of Lightwave Technology, 2020, 38, 3445-3453.	2.7	30
23	Microbubble resonators combined with a digital optical frequency comb for high-precision air-coupled ultrasound detectors. Photonics Research, 2020, 8, 303.	3.4	30
24	432-Gb/s Direct-Detection Optical OFDM Superchannel Transmission Over 3040-km SSMF. IEEE Photonics Technology Letters, 2013, 25, 1524-1526.	1.3	26
25	Ultrasensitive Mach-Zehnder Interferometric Temperature Sensor Based on Liquid-Filled D-Shaped Fiber Cavity. Sensors, 2018, 18, 1239.	2.1	26
26	A thorough study on genetic algorithms in feedback-based wavefront shaping. Journal of Innovative Optical Health Sciences, 2019, 12, .	0.5	26
27	Experimental Demonstration of 16-QAM DD-SEFDM With Cascaded BPSK Iterative Detection. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	25
28	In-Fiber Mach-Zehnder Interferometer Exploiting a Micro-Cavity For Strain and Temperature Simultaneous Measurement. IEEE Sensors Journal, 2019, 19, 5632-5638.	2.4	25
29	Engineered Raman Lasing in Photonic Integrated Chalcogenide Microresonators. Laser and Photonics Reviews, 2022, 16, .	4.4	25
30	Highly efficient acousto-optic modulation using nonsuspended thin-film lithium niobate-chalcogenide hybrid waveguides. Light: Science and Applications, 2022, 11, .	7.7	24
31	Statistical Analysis of Optical Signal-to-Noise Ratio Monitoring Using Delay-Tap Sampling. IEEE Photonics Technology Letters, 2010, 22, 149-151.	1.3	23
32	Bidirectional Hybrid OFDM-WDM-PON System for 40-Gb/s Downlink and 10-Gb/s Uplink Transmission Using RSOA Remodulation. IEEE Photonics Technology Letters, 2012, 24, 2024-2026.	1.3	23
33	Aberration-free aspherical in-plane tunable liquid lenses by regulating local curvatures. Lab on A Chip, 2020, 20, 995-1001.	3.1	23
34	Signed chromatic dispersion monitoring of 100Gbit/s CS-RZ DQPSK signal by evaluating the asymmetry ratio of delay tap sampling. Optics Express, 2010, 18, 3149.	1.7	22
35	Optofluidic Tunable Lenses for In-Plane Light Manipulation. Micromachines, 2018, 9, 97.	1.4	22
36	Joint FDE and MLSD Algorithm for 56-Gbit/s Optical FTN-PAM4 System Using 10G-Class Optics. Journal of Lightwave Technology, 2019, 37, 3343-3350.	2.7	22

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37	On-chip chalcogenide microresonators with low-threshold parametric oscillation. <i>Photonics Research</i> , 2021, 9, 1272.	3.4	21
38	Burst-Error-Propagation Suppression for Decision-Feedback Equalizer in Field-Trial Submarine Fiber-Optic Communications. <i>Journal of Lightwave Technology</i> , 2021, 39, 4601-4606.	2.7	21
39	Enabling Technology in High-Baud-Rate Coherent Optical Communication Systems. <i>IEEE Access</i> , 2020, 8, 111318-111329.	2.6	20
40	Optical Performance Monitoring of Multiple Parameters in Future Optical Networks. <i>Journal of Lightwave Technology</i> , 2021, 39, 3792-3800.	2.7	20
41	Dual-Drive Mach-Zehnder Modulator-Based Single Side-Band Modulation Direct Detection System Without Signal-to-Signal Beating Interference. <i>Journal of Lightwave Technology</i> , 2020, 38, 4341-4351.	2.7	19
42	Spatial resolution improvement of single-shot digital optical frequency comb-based Brillouin optical time domain analysis utilizing multiple pump pulses. <i>Optics Letters</i> , 2018, 43, 3534.	1.7	18
43	DD-OFDM transmission over few-mode fiber based on direct vector mode multiplexing. <i>Optics Express</i> , 2018, 26, 18749.	1.7	17
44	Processing for dispersive intensity-modulation and direct-detection fiber-optic communications. <i>Optics Letters</i> , 2021, 46, 138.	1.7	16
45	Spectral Demodulation of Fiber Bragg Grating Sensor Based on Deep Convolutional Neural Networks. <i>Journal of Lightwave Technology</i> , 2022, 40, 4429-4435.	2.7	16
46	Superposing Multiple LP Modes With Microphase Difference Distributed Along Fiber to Generate OAM Mode. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	15
47	Amplifier-less transmission of beyond 100-Gbit/s signal for 40-km DCI-Edge with 10G-class O-band DML. <i>Journal of Lightwave Technology</i> , 2020, 38, 5649-5655.	2.7	15
48	C-band 56-Gbit/s on/off keying system over a 100-km dispersion-uncompensated link using only receiver-side digital signal processing. <i>Optics Letters</i> , 2020, 45, 758.	1.7	15
49	Experimental Demonstration of 429.96-Gb/s OFDM/OQAM-64QAM Over 400-km SSMF Transmission Within a 50-GHz Grid. <i>IEEE Photonics Journal</i> , 2014, 6, 1-8.	1.0	14
50	Stimulated Brillouin Scattering in Low-Loss Ge ₂₅ Sb ₁₀ S ₆₅ Chalcogenide Waveguides. <i>Journal of Lightwave Technology</i> , 2021, 39, 5048-5053.	2.7	14
51	Transmission of a 56-Gbit/s PAM4 signal with low-resolution DAC and pre-equalization only over 80-km fiber in C-band IM/DD systems for optical interconnects. <i>Optics Letters</i> , 2021, 46, 5615.	1.7	14
52	Sensitive Orbital Angular Momentum (OAM) Monitoring by Using Gradually Changing-Period Phase Grating in OAM-Multiplexing Optical Communication Systems. <i>IEEE Photonics Journal</i> , 2016, 8, 1-6.	1.0	13
53	Investigation of Four-Wave-Mixing Crosstalk in Phase-Sensitive Fiber Optical Parametric Amplifier. <i>Journal of Lightwave Technology</i> , 2018, 36, 5113-5120.	2.7	13
54	Ultrasound Measurement Using On-Chip Optical Micro-Resonators and Digital Optical Frequency Comb. <i>Journal of Lightwave Technology</i> , 2020, 38, 5293-5301.	2.7	13

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55	On-Chip Detector Based on Supercontinuum Generation in Chalcogenide Waveguide. <i>Journal of Lightwave Technology</i> , 2021, 39, 3890-3895.	2.7	13
56	Modulation format identification in heterogeneous fiber-optic networks using artificial neural networks and genetic algorithms. <i>Photonic Network Communications</i> , 2016, 32, 246-252.	1.4	12
57	Toward Universal Optical Performance Monitoring for Intelligent Optical Fiber Communication Networks. <i>IEEE Communications Magazine</i> , 2020, 58, 54-59.	4.9	11
58	Optimization Algorithms of Neural Networks for Traditional Time-Domain Equalizer in Optical Communications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3907.	1.3	10
59	Optical Single Sideband Signal Reconstruction Based on Time-Domain Iteration. <i>Journal of Lightwave Technology</i> , 2021, 39, 2319-2326.	2.7	10
60	Modified Gerchberg-Saxton Algorithm Based Electrical Dispersion Pre-Compensation for Intensity-modulation and Direct-detection Systems. <i>Journal of Lightwave Technology</i> , 2022, 40, 2840-2849.	2.7	10
61	Chromatic Dispersion Monitoring Based on Variance of Received Optical Power. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 486-488.	1.3	9
62	Beyond 1.6 Tb/s Net Rate PAM Signal Transmission for Rack-Rack Optical Interconnects With Mode and Wavelength Division Multiplexing. <i>Journal of Lightwave Technology</i> , 2021, 39, 340-346.	2.7	9
63	Fiber Vector Eigenmode Multiplexing Based High Capacity Transmission Over 5-km FMF With Kramers-Kronig Receiver. <i>Journal of Lightwave Technology</i> , 2021, 39, 4932-4938.	2.7	9
64	Optical, mechanical and thermal characterizations of suspended chalcogenide glass microdisk membrane. <i>Optics Express</i> , 2019, 27, 15918.	1.7	9
65	PMD-Insensitive CD Monitoring Based on RF Clock Power Ratio Measurement With Optical Notch Filter. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1576-1578.	1.3	8
66	95.16-Gb/s Mode-Division-Multiplexing Signal Transmission in Free-Space Enabled by Effective-Conversion of Vector Beams. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	8
67	Optical Frequency Comb Generation Based on Dual-Polarization IQ Modulator Shared by Two Polarization-Orthogonal Recirculating Frequency Shifting Loops. <i>IEEE Photonics Journal</i> , 2017, 9, 1-10.	1.0	8
68	Transmission and Generation of Orbital ANGULAR Momentum Modes in Optical Fibers. <i>Photonics</i> , 2021, 8, 246.	0.9	8
69	Imbalanced Digital Back-Propagation for Nonlinear Optical Fiber Transmissions. <i>Journal of Lightwave Technology</i> , 2021, 39, 4622-4628.	2.7	8
70	100 Gbit/s DMT-PON System Based on Intensity Modulation and Heterodyne Coherent Detection. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1014-1017.	1.3	8
71	Ultrafast polarization bio-imaging based on coherent detection and time-stretch techniques. <i>Biomedical Optics Express</i> , 2018, 9, 6556.	1.5	8
72	Noise Shaping Enhanced DMT Signal Transmission Utilizing Low-Resolution DAC. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	1.0	8

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73	Multi-Rate Nyquist-SCM for C-Band 100 Gbit/s Signal Over 50 km Dispersion-Uncompensated Link. <i>Journal of Lightwave Technology</i> , 2022, 40, 1930-1936.	2.7	8
74	Fast-Switchable OAM-Based High Capacity Density Optical Router. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	7
75	Demonstration of Low-Cost EML Based 240 Gbit/s DFT-Spread DMT Signal Transmission Over Few-Mode Fiber With Cylindrical Vector Beam Multiplexing. <i>IEEE Access</i> , 2019, 7, 77786-77791.	2.6	7
76	Real-Time Observation of the Regime Transition Dynamics of Mode-Locked Fiber Lasers. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1545-1548.	1.3	7
77	DFT Spread Spectrally Efficient Frequency Division Multiplexing for IM-DD Transmission in C-Band. <i>Journal of Lightwave Technology</i> , 2020, 38, 3526-3532.	2.7	7
78	Effects of Shallow Suspension in Low-loss Waveguide-integrated Chalcogenide Microdisk Resonators. <i>Journal of Lightwave Technology</i> , 2020, , 1-1.	2.7	7
79	Dynamic Range Enlargement of Distributed Acoustic Sensing Based on Temporal Differential and Weighted-Gauge Approach. <i>Journal of Lightwave Technology</i> , 2022, 40, 3038-3045.	2.7	7
80	On-Chip Waveguide Amplifiers for Multi-Band Optical Communications: A Review and Challenge. <i>Journal of Lightwave Technology</i> , 2022, 40, 3364-3373.	2.7	7
81	Multi-channel higher-order OAM generation and switching based on a mode selective interferometer. <i>Optics Express</i> , 2022, 30, 25093.	1.7	7
82	Mode Multiplexing and High Efficient Switching in Few-Mode Fiber Based on Modeled Blazed Grating. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	1.0	6
83	An accurate method for measuring the proportions of degenerated spatial modes in fibers. <i>Journal of Lightwave Technology</i> , 2020, , 1-1.	2.7	6
84	Lateral Force Sensing Based on Sagnac Interferometry Realized by a High-Birefringence Suspended-Core Fiber. <i>Journal of Lightwave Technology</i> , 2022, 40, 3935-3941.	2.7	6
85	On Cooperative Fault Management in Multi-Domain Optical Networks Using Hybrid Learning. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-9.	1.9	6
86	Optical spectrally efficient FDM system for electrical and optical bandwidth saving. , 2014, , .		4
87	2 \times 2 MIMO Equalizer Enabled Transmitter Side IQ Imbalance Compensation for Optical Single Sideband Direct Detection System. <i>Journal of Lightwave Technology</i> , 2022, 40, 1914-1920.	2.7	4
88	Dynamic Evaluation of Four CV Modes Multiplexing System Using Kramersâ€™Kronig Reception and 4 \times 4 Non-Singular MIMO. <i>Journal of Lightwave Technology</i> , 2022, 40, 1962-1971.	2.7	4
89	Chromatic dispersion monitoring of DQPSK and D8PSK signals based on delay-tap sampling technique. , 2010, , .		3
90	Joint CD and PMD monitoring based on a pair of low-bandwidth coherent receivers. <i>Optics Express</i> , 2016, 24, 26756.	1.7	3

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91	Non-orthogonal Discrete Multi-tone With Low Decoding Complexity Utilizing Symmetric Compression in Time-Frequency Space. IEEE Photonics Journal, 2018, 10, 1-7.	1.0	3
92	Multi-Dimensional Optical Fiber Sensing Enabled by Digital Coherent Optical Technologies. Journal of Lightwave Technology, 2019, 37, 2488-2501.	2.7	3
93	Performance Enhanced Gerchberg-Saxton Algorithm Based Electrical Dispersion Pre-compensation for Intensity-Modulation and Direct-Detection System. , 2021, , .		3
94	Phase noise estimation based on direct detection using phase noise to intensity noise conversion. , 2013, , .		2
95	4 Å– 2 Tbit/s superchannel self-coherent transmission based on carrier tracking and expanding. Electronics Letters, 2014, 50, 195-197.	0.5	2
96	Data-aided linear fitting blind phase estimation method for coherent optical OFDM system. Photonic Network Communications, 2016, 31, 316-320.	1.4	2
97	1.12 Tbit/s fiber vector eigenmode multiplexing transmission over 5-km FMF with Kramers-Kronig receiver. , 2020, , .		2
98	Optical signal monitoring of DPSK signals using RF power detection. , 2008, , .		1
99	Linear RF photonics phase shifter based on polarization sensitive optical phase modulator. , 2010, , .		1
100	PMD insensitive CD monitoring based on RF power ratio in D8PSK and DQPSK systems. , 2010, , .		1
101	Compensation for nonlinear distortion of optical OFDM signals induced by electro-absorption modulated lasers with digital predistortion. , 2012, , .		1
102	Mode multiplexing and de-multiplexing using few-mode tilted fiber Bragg grating for SDM-WDM transmission system. , 2014, , .		1
103	In-band OSNR monitoring based on low-bandwidth coherent receiver and tunable laser. Frontiers of Optoelectronics, 2016, 9, 526-530.	1.9	1
104	228 Gb/s vector-mode-division-multiplexing signal transmission in free-space based on optical frequency comb. , 2017, , .		1
105	Vector mode based optical direct detection orthogonal frequency division multiplexing transmission in short-reach optical link. Frontiers of Optoelectronics, 2019, 12, 41-51.	1.9	1
106	Special Issue on Enabling Technology in Optical Fiber Communications: From Device, System to Networking. Sensors, 2021, 21, 1969.	2.1	1
107	OSNR Monitoring Based on Low-cost Coherent Scanning Receiver and Reference Spectrum Technique. , 2014, , .		1
108	OSNR Monitoring Based on Low-Bandwidth Coherent Receiver and Discrete Classifier. , 2020, , .		1

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109	Transmitter IQ Imbalance Compensation in Single Sideband Direct Detection System with 2x2 MIMO Equalizer. , 2021, , .		1
110	Demonstration of transmission of 8×100Gb/s CSRZ-DQPSK signal over 1520Km standard single-mode fiber. , 2009, , .		0
111	Optical signal monitoring for 10 Gb/s NRZ WDM transmission system using cross-correlation method. , 2009, , .		0
112	A novel dispersion monitoring scheme by evaluating eye diagram for 100Gbit/s CS-RZ DQPSK systems. , 2010, , .		0
113	Widely tunable microwave photonic filter based on phase modulation and Brillouin selective sideband amplification. , 2012, , .		0
114	Microwave photonic bandpass filter based on phase modulation and Hi-Bi FBG-FP cavity. , 2012, , .		0
115	Multiwavelength narrow linewidth erbium-doped fiber laser based on cascading two FP-LDs. , 2013, , .		0
116	Optical power monitoring for O-OFDM superchannel based on Wiener deconvolution. , 2013, , .		0
117	Experimental demonstration of 100-Gb/s direct detection OFDM/OQAM signal over 80-km SSMF within 50-GHz optical grid using a single photodiode. , 2014, , .		0
118	Mixed-polar-amplitude-modulation pilot-based blind phase estimation for coherent optical OFDM system. , 2015, , .		0
119	Characterizing the differential mode group delay and modal dispersion of long few-mode fiber based on electrical spectral interferometry. Optical Engineering, 2017, 56, 036110.	0.5	0
120	Theoretical Investigation of Broadband Frequency Conversion Bridging the Mid-Infrared and Telecom Band Through a Chalcogenide/Sio₂ Hybrid Waveguide. IEEE Photonics Journal, 2021, 13, 1-10.	1.0	0
121	Large-Range Switchable Microwave & Millimeter-Wave Signal Generator Based on a Triple-Wavelength Fiber Laser. IEICE Transactions on Electronics, 2013, E96.C, 197-200.	0.3	0
122	High-Efficiency Orbital Angular Momentum Beams Multiplexing System With Compact Shaper and Transformation Optics. Journal of Lightwave Technology, 2022, 40, 4548-4554.	2.7	0