

# Fu Songnian

## List of Publications by Year in descending order

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420  
papers

6,791  
citations

87888

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149698

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g-index

421  
all docs

421  
docs citations

421  
times ranked

3983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate OSNR monitoring based on data-augmentation-assisted DNN with a small-scale dataset. Optics Letters, 2022, 47, 130.	3.3	6
2	Advanced DSP Enabled C-Band 112 Gbit/s $\sqrt{1}$ PAM-4 Transmissions With Severe Bandwidth-Constraint. Journal of Lightwave Technology, 2022, 40, 987-996.	4.6	22
3	Wavefront shaping for reconfigurable beam steering in lithium niobate multimode waveguide. Optics Letters, 2022, 47, 329.	3.3	2
4	A Hierarchical Modulation Enabled SNR Allocable Delta-Sigma Digital Mobile Fronthaul System. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	8
5	Optical curvature sensor with high resolution based on in-line fiber Mach-Zehnder interferometer and microwave photonic filter. Optics Express, 2022, 30, 5402.	3.4	15
6	32 Gb/s physical-layer secure optical communication over 200 km based on temporal dispersion and self-feedback phase encryption. Optics Letters, 2022, 47, 913.	3.3	24
7	Optically magnified dispersion of microwave signal with a wide flexible tunable range. Optics Letters, 2022, 47, 1057-1060.	3.3	3
8	Power-Over-Fiber in Support of 5G NR Fronthaul: Space Division Multiplexing Versus Wavelength Division Multiplexing. Journal of Lightwave Technology, 2022, 40, 4169-4177.	4.6	8
9	Robust wide-range chirp rate measurement based on a flexible photonic fractional Fourier transformer. Optics Express, 2022, 30, 7750.	3.4	6
10	Ultra-broadband LP <sub>11</sub> mode converter with high purity based on long-period fiber grating and an integrated Y-junction. Optics Express, 2022, 30, 12751.	3.4	7
11	Nonlinear Fourier transform assisted high-order soliton characterization. New Journal of Physics, 2022, 24, 033039.	2.9	4
12	All-optical light manipulation based on graphene-embedded side-polished fiber. Optics Letters, 2022, 47, 1478.	3.3	7
13	Maximum probability directed blind phase search for PS-QAM with variable shaping factors. Optics Express, 2022, 30, 550.	3.4	10
14	High-performance polarization management devices based on thin-film lithium niobate. Light: Science and Applications, 2022, 11, 93.	16.6	48
15	C-band 200 Gbit/s $\sqrt{1}$ PAM-4 transmission over 2-km SSMF using look-up-table pre-distortion combined with nonlinear Tomlinson-Harashima pre-coding. Optics Express, 2022, 30, 15416.	3.4	4
16	Machine Learning Assisted Ultra-Wideband Fiber-Optics Mode Selective Coupler Design. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	2.9	2
17	Secure Transmission via IUI Engineering for IRS-Assisted NOMA Systems. IEEE Wireless Communications Letters, 2022, 11, 1369-1373.	5.0	5
18	Hardware-Efficient Blind Frequency Offset Estimation for Spectral-Efficient Digital Subcarrier Multiplexing Systems. Journal of Lightwave Technology, 2022, 40, 4246-4256.	4.6	4

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19	Optically powered 5G WDM fronthaul network with weakly-coupled multicore fiber. Optics Express, 2022, 30, 19795.	3.4	4
20	Transverse Kerker Effect for Dipole Sources. Physical Review Letters, 2022, 128, .	7.8	13
21	Physical secure key distribution based on chaotic self-carrier phase modulation and time-delayed shift keying of synchronized optical chaos. Optics Express, 2022, 30, 23953.	3.4	12
22	High spatial resolution fast Brillouin optical time-domain analysis enabled by frequency-agility digital optical frequency comb. Optics Letters, 2022, 47, 3403.	3.3	6
23	Elliptical-Core Highly Nonlinear Few-Mode Fiber Based OXC for WDM-MDM Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	6
24	Reciprocating Reflective Double Gratings Based LCOS Waveshaper with Finer Bandwidth Resolution. , 2021, , .		0
25	Panda-type Few-mode Fiber Enabled Microwave Photonic Filter with Reconfigurable Finite Impulse Response. , 2021, , .		0
26	Improved receiver of ICI compensation for a spectral efficient frequency division multiplexing IM/DD system. Optics Express, 2021, 29, 3067.	3.4	1
27	Fast and blind chromatic dispersion estimation with one sample per symbol. Optics Express, 2021, 29, 7504.	3.4	5
28	Optimized Volterra filter equalizer based on weighted principal component analysis for IM-DD transmission. Optics Letters, 2021, 46, 1680.	3.3	3
29	Panda-type few-mode fiber-enabled microwave photonic filter with a reconfigurable finite impulse response. Optics Letters, 2021, 46, 1852.	3.3	5
30	Soliton Distillation of Pulses From a Fiber Laser. Journal of Lightwave Technology, 2021, 39, 2542-2546.	4.6	74
31	8 Å— 10 Gb/s Downstream PAM-4 Transmission for Cost-Effective Coherent WDM-PON Application. Journal of Lightwave Technology, 2021, 39, 2837-2846.	4.6	13
32	Reconfigurable generation of double-ring perfect vortex beam. Optics Express, 2021, 29, 17353.	3.4	11
33	Trellis Shaping for Fiber Nonlinearity Mitigation in Coherent Optical OFDM Systems. Journal of Lightwave Technology, 2021, 39, 2809-2819.	4.6	0
34	Biased Balance Detection for Fiber Optical Frequency Comb Based Linear Optical Sampling. Journal of Lightwave Technology, 2021, 39, 3458-3465.	4.6	12
35	Reciprocating Reflective Double Gratings Based LCOS Spectral Filter With Sharp Response. Journal of Lightwave Technology, 2021, 39, 3961-3966.	4.6	2
36	Polarization-Maintaining Multi-Core Few-Mode Fiber With a Cladding Diameter of 125 $\hat{1}$ / <sub>4</sub> m. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	2

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37	Adaptive intensity transformation-based phase retrieval with high accuracy and fast convergence. Optics Letters, 2021, 46, 3215.	3.3	10
38	Simple and precise characterization of differential modal group delay arising in few-mode fiber. Optics Letters, 2021, 46, 2856.	3.3	3
39	Hardware-efficient blind frequency offset estimation for digital subcarrier multiplexing signals. Optics Express, 2021, 29, 19879.	3.4	6
40	Wideband low confinement loss anti-resonant hollow core fiber with nested U-shape tube. Optics Express, 2021, 29, 24182.	3.4	13
41	Nonlinear Fourier transform enabled eigenvalue spectrum investigation for fiber laser radiation. Photonics Research, 2021, 9, 1531.	7.0	60
42	Negative refraction mediated by bound states in the continuum. Photonics Research, 2021, 9, 1592.	7.0	11
43	Mode converter with C+L band coverage based on the femtosecond laser inscribed long period fiber grating. Optics Letters, 2021, 46, 3340.	3.3	11
44	Optical True Time Delay-Based Hybrid Beamforming for Limited-Feedback Millimeter-Wave Massive MIMO Systems. IEEE Communications Letters, 2021, 25, 2405-2409.	4.1	6
45	Experimental generation of perfect optical vortices through strongly scattering media. Optics Letters, 2021, 46, 4156.	3.3	8
46	Design of Ring-Core Few-Mode-EDFA With the Enhanced Saturation Input Signal Power and Low Differential Modal Gain. IEEE Photonics Journal, 2021, 13, 1-6.	2.0	16
47	Blind Identification of the Shaping Rate for Probabilistic Shaping QAM Signal. IEEE Photonics Technology Letters, 2021, 33, 998-1001.	2.5	3
48	Optical true time delay pool-based beamforming and limited feedback for reconfigurable intelligent surface-empowered cloud radio access networks. Science China Information Sciences, 2021, 64, 1.	4.3	3
49	Rigorous FM-EDF design with an oversized two-layer erbium ion distribution for C-band DMG mitigation. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F1.	2.1	4
50	10-W power light co-transmission with optically carried 5G NR signal over standard single-mode fiber. Optics Letters, 2021, 46, 5116.	3.3	15
51	Dual-Band Accelerating Beams Enabled Full Duplex Free-Space Optical Interconnection. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	11
52	Hardware-efficient Nonlinear Equalizer based on Joint Unsupervised Learning and Supervised Weights. , 2021, , .		1
53	Linear Optical Sampling Enabled Eigenvalue Analysis of Fiber Laser Radiation. , 2021, , .		1
54	Machine Learning Classification vs. Regression for NFDm Transmission with Discrete Spectrum. , 2021, , .		0

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55	Geometric Shaping PAM-4 signaling for the Simplified Coherent Receiver with the transmitted signal diversity. , 2021, , .		1
56	Efficient Channel Model for Homogeneous Weakly Coupled Multicore Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-11.	2.9	7
57	All-Fiber Flexible Generation of the Generalized Cylindrical Vector Beam (CVB) Over the C-Band. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-7.	2.9	4
58	Airy Beam for Free-Space Photonic Interconnection: Generation Strategy and Trajectory Manipulation. Journal of Lightwave Technology, 2020, 38, 6474-6480.	4.6	18
59	Overfitting effect of artificial neural network based nonlinear equalizer: from mathematical origin to transmission evolution. Science China Information Sciences, 2020, 63, 1.	4.3	18
60	Enhancing the Physical Layer Security of OFDM-PONs With Hardware Fingerprint Authentication: A Machine Learning Approach. Journal of Lightwave Technology, 2020, 38, 3238-3245.	4.6	33
61	Latency-efficient code-division multiplexing (CDM) based carrier aggregation for 5G NR mobile fronthaul. Optics Communications, 2020, 472, 126051.	2.1	4
62	180 Gb/s PAM8 Signal Transmission in Bandwidth-Limited IMDD System Enabled by Tap Coefficient Decision Directed Volterra Equalizer. IEEE Access, 2020, 8, 19890-19899.	4.2	7
63	Telecommunication Compatibility Evaluation for Co-existing Quantum Key Distribution in Homogenous Multicore Fiber. IEEE Access, 2020, 8, 78836-78846.	4.2	8
64	Carrier Beating Impairment in Weakly Coupled Multicore Fiber-Based IM/DD Systems. IEEE Access, 2020, 8, 65699-65710.	4.2	4
65	Parallel Fabry-Perot interferometers fabricated on multicore-fiber for temperature and strain discriminative sensing. Optics Express, 2020, 28, 3190.	3.4	19
66	Single-axis soliton molecule and multiple solitons generation from a vector fiber laser. Optics Express, 2020, 28, 5212.	3.4	13
67	Laser linewidth tolerance for nonlinear frequency division multiplexing transmission with discrete spectrum modulation. Optics Express, 2020, 28, 9642.	3.4	15
68	Unveil the time delay signature of optical chaos systems with a convolutional neural network. Optics Express, 2020, 28, 15221.	3.4	16
69	Transfer learning simplified multi-task deep neural network for PDM-64QAM optical performance monitoring. Optics Express, 2020, 28, 7607.	3.4	31
70	Robust chaotic-shift-keying scheme based on electro-optical hybrid feedback system. Optics Express, 2020, 28, 10847.	3.4	27
71	Distributed curvature sensing based on a bending loss-resistant ring-core fiber. Photonics Research, 2020, 8, 165.	7.0	23
72	Distributed Brillouin frequency shift extraction via a convolutional neural network. Photonics Research, 2020, 8, 690.	7.0	46

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73	Sparse representation of Brillouin spectrum using dictionary learning. Optics Express, 2020, 28, 18160.	3.4	4
74	Femtosecond laser fabricated all-multicore-fiber parallel Fabry-Perot interferometers for dual-parameter sensing. , 2020, , .		3
75	Active Mode-Selective Conversion Enabled by an Elliptical- Core Highly Nonlinear Few-Mode Fiber. , 2020, , .		0
76	Low-complexity equalization scheme for suppressing FFE-enhanced in-band noise and ISI in 100 Gbps PAM4 optical IMDD system. Optics Letters, 2020, 45, 2555.	3.3	15
77	High-speed PAM-4 Eye Diagram Analyzer Based on Simplified Linear Optical Sampling Technique. , 2020, , .		3
78	Nonlinearity Tolerant High-Speed DMT Transmission With 1.5- <i>μ</i> m Single-Mode VCSEL and Multi-Core Fibers for Optical Interconnects. Journal of Lightwave Technology, 2019, 37, 380-388.	4.6	14
79	Efficient Timing/Frequency Synchronization Based on Sparse Fast Fourier Transform. Journal of Lightwave Technology, 2019, 37, 5299-5308.	4.6	5
80	Hardware Efficient Adaptive Equalizer for Coherent Short-Reach Optical Interconnects. IEEE Photonics Technology Letters, 2019, 31, 1249-1252.	2.5	12
81	PANDA Type Four-Core Fiber With the Efficient Use of Stress Rods. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	6
82	Toward Terabit Digital Radio over Fiber Systems: Architecture and Key Technologies. IEEE Communications Magazine, 2019, 57, 131-137.	6.1	32
83	Long Short-Term Memory Neural Network (LSTM-NN) Enabled Accurate Optical Signal-to-Noise Ratio (OSNR) Monitoring. Journal of Lightwave Technology, 2019, 37, 4140-4146.	4.6	29
84	Reconfigurable Microwave Photonic Filter Based on Long Period Gratings Inscribed in Multicore Fibers. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	4
85	Panda type elliptical core few-mode fiber. APL Photonics, 2019, 4, 022901.	5.7	19
86	Joint Carrier Frequency Offset and Phase Noise Estimation Based on Pseudo-Pilot in CO-FBMC/OQAM System. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	10
87	Sparse-fast-Fourier-Transform Assisted Timing/Frequency Synchronization for Optical Coherent Receivers. , 2019, , .		0
88	Adaptive Uniform Entropy Loading for SSB-DMT Systems. Journal of Lightwave Technology, 2019, 37, 5961-5970.	4.6	6
89	An Image Encryption Scheme Based on Hybrid Electro-Optic Chaotic Sources and Compressive Sensing. IEEE Access, 2019, 7, 156582-156591.	4.2	20
90	Reconfigurable Inter-Core Signal Switching Within Multicore Fibers Based on Long-Period Gratings. Journal of Lightwave Technology, 2019, 37, 6025-6032.	4.6	3

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91	Peak-power-clamping in an all-polarization-maintaining Q-switched mode-locking fiber laser. Optics Express, 2019, 27, 37614.	3.4	3
92	Real-Time Denoising of Brillouin Optical Time Domain Analyzer With High Data Fidelity Using Convolutional Neural Networks. Journal of Lightwave Technology, 2019, 37, 2648-2653.	4.6	43
93	High-Speed PAM4-Based Optical SDM Interconnects With Directly Modulated Long-Wavelength VCSEL. Journal of Lightwave Technology, 2019, 37, 356-362.	4.6	19
94	Liquid crystal-optical phased arrays (LC-OPA)-based optical beam steering with microradian resolution enabled by double gratings. Applied Optics, 2019, 58, 4091.	1.8	10
95	DUAL-PANDA TYPE FOUR-CORE FIBER. , 2019, , .		2
96	Harnessing oversampling in correlation-coded OTDR. Optics Express, 2019, 27, 1693.	3.4	12
97	Double-grating with multiple diffractions enabled small angle measurement. Optics Express, 2019, 27, 5289.	3.4	8
98	Joint OSNR and CD monitoring in digital coherent receiver using long short-term memory neural network. Optics Express, 2019, 27, 6936.	3.4	29
99	Modulation format identification assisted by sparse-fast-Fourier-transform for hitless flexible coherent transceivers. Optics Express, 2019, 27, 7072.	3.4	17
100	Femtosecond laser enabled selective micro-holes drilling on the multicore-fiber facet for displacement sensor application. Optics Express, 2019, 27, 10777.	3.4	14
101	Amplifier-free 4Å–96 Gb/s PAM8 transmission enabled by modified Volterra equalizer for short-reach applications using directly modulated lasers. Optics Express, 2019, 27, 17927.	3.4	17
102	Multi-task deep neural network (MT-DNN) enabled optical performance monitoring from directly detected PDM-QAM signals. Optics Express, 2019, 27, 19062.	3.4	47
103	Hybrid constellation entropy loading for adaptively partitioned SSB-DMT systems. Optics Express, 2019, 27, 26295.	3.4	4
104	Long-period fiber gratings inscribed in few-mode fibers for discriminative determination. Optics Express, 2019, 27, 26307.	3.4	13
105	Single-step digital backpropagation for subcarrier-multiplexing transmissions. Optics Express, 2019, 27, 36680.	3.4	8
106	Optimized self-interference cancellation based on optical dual-parallel MZM for co-frequency and co-time full duplex wireless communication under nonlinear distortion and emulated multipath effect. Optics Express, 2019, 27, 37286.	3.4	20
107	A Low-Complexity Adaptive Equalizer for Digital Coherent Short-Reach Optical Transmission Systems. , 2019, , .		14
108	Comparison of Coherent and IMDD Transceivers for Intra Datacenter Optical Interconnects. , 2019, , .		52

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109	Semiconductor-laser-based hybrid chaos source and its application in secure key distribution. Optics Letters, 2019, 44, 2605.	3.3	33
110	Femtosecond laser micro-machining enabled all-fiber mode selective converter. Optics Letters, 2019, 44, 5941.	3.3	7
111	Design, fabrication, and characterization of a highly nonlinear few-mode fiber. Photonics Research, 2019, 7, 1354.	7.0	14
112	Experimental Demonstration of a Sparse-FFT Based Quick Synchronization Method for FBMC/OQAM Systems. , 2019, , .		0
113	Ultra-Low Crosstalk Fused Taper Type Fan-in/Fan-out Devices for Multicore Fibers. , 2019, , .		12
114	Sparse I/Q Volterra filter for optical 16-QAM signals in direct-detection Kramers-Kronig receiver. , 2019, , .		0
115	Robust digital-controllable broadband analog optical chaos generation. , 2019, , .		0
116	Maximizing the security of digital chaos based OFDM-PON with a dynamical nonlinear transformation. , 2019, , .		1
117	Programmable spectral processor based on spatial polarization manipulation with liquid crystal on silicon. Optics Express, 2019, 27, 14809.	3.4	1
118	Design of elliptical-core five-mode group selective photonic lantern over the C-band. Optics Express, 2019, 27, 27979.	3.4	11
119	Microwave photonic RF front-end for co-frequency co-time full duplex 5G communication with integrated RF signal self-interference cancellation, optoelectronic oscillator and frequency down-conversion. Optics Express, 2019, 27, 32147.	3.4	11
120	IIR Microwave Photonic Filters Based on Homogeneous Multicore Fibers. Journal of Lightwave Technology, 2018, 36, 4298-4304.	4.6	6
121	Investigation of Germanium-Loaded Slot Waveguides for Mid-Infrared Third Harmonic Generation. Plasmonics, 2018, 13, 2197-2204.	3.4	2
122	A time and frequency synchronization method for CO-OFDM based on CMA equalizers. Optics Communications, 2018, 416, 166-171.	2.1	2
123	Plasmon-Induced Transparency and Refractive Index Sensing in Side-Coupled Stub-Hexagon Resonators. Plasmonics, 2018, 13, 251-257.	3.4	55
124	Broadband Optical Reflection Modulator in Indium-Tin-Oxide-Filled Hybrid Plasmonic Waveguide with High Modulation Depth. Plasmonics, 2018, 13, 1309-1314.	3.4	15
125	PAM4 based symmetrical 112-Gbps long-reach TWDM-PON. Optics Communications, 2018, 409, 117-122.	2.1	3
126	Secure Optical Communication System Based on ASE Noise with No Need for Key Distribution. , 2018, , .		1



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127	Crosstalk Impacts on Homogeneous Weakly-Coupled Multicore Fiber Based IM/DD System. , 2018, , .		1
128	Optimization of the Channel Estimation Training Sequence for Precoded DDO-OFDM System. , 2018, , .		0
129	Integrating Quantum Key Distribution with the Spatial Division Multiplexing Enabled High Capacity Optical Networks. , 2018, , .		1
130	Multicore Fiber Mach-Zehnder Interferometers by Programmable Offset Splicing Technique. , 2018, , .		0
131	All-optical Phase Shifter and Switch Based on Microfiber Coated with Colloidal Quantum Dots. , 2018, , .		0
132	Time-frequency Signal Processing Based on Fractional Fourier Transform for Coherent Optical Communications. , 2018, , .		2
133	Panda Type Few-Mode Fiber Capable of Both Mode Profile and Polarization Maintenance. Journal of Lightwave Technology, 2018, 36, 5780-5785.	4.6	17
134	Distributed Measurement of Polarization Mode Coupling in Polarization Maintaining Fibers Using Microwave Photonic Filter Technique. Journal of Lightwave Technology, 2018, 36, 4543-4548.	4.6	5
135	LP <sub>11a/b</sub> Mode Converter Based on Long-Period Grating in Elliptical Few-mode Fiber. , 2018, , .		0
136	Joint Time/Frequency Synchronization and Chromatic Dispersion Estimation With Low Complexity Based on a Superimposed FrFT Training Sequence. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	20
137	Enabling Simultaneous DAS and DTS Through Space-Division Multiplexing Based on Multicore Fiber. Journal of Lightwave Technology, 2018, 36, 5707-5713.	4.6	21
138	Digital Domain Power Division Multiplexed Dual Polarization Coherent Optical OFDM Transmission. Scientific Reports, 2018, 8, 15827.	3.3	16
139	Inter-Core Crosstalk in Multicore Fibers: Impact on $56\text{-ext}\{\text{Gbaud}\}/\lambda$ /Core PAM-4 Transmission. , 2018, , .		3
140	Stable and Compact Dual-Loop Optoelectronic Oscillator Using Self-Polarization-Stabilization Technique and Multicore Fiber. Journal of Lightwave Technology, 2018, 36, 5196-5202.	4.6	8
141	A Joint OSNR and Nonlinear Distortions Estimation Method for Optical Fiber Transmission System. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	7
142	SNR-Enhanced Fast BOTDA Combining Channel Estimation Technique With Complementary Pulse Coding. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	5
143	Crossing-free on-chip $2 \times 2$ polarization-transparent switch with signals regrouping function. Optics Letters, 2018, 43, 4009.	3.3	2
144	Bidirectional long-reach PON using Kramers-Kronig-based receiver for Rayleigh Backscattering noise and SSBI interference elimination. Optics Express, 2018, 26, 19020.	3.4	9

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145	Synchronized Random Bit Sequences Generation Based on Analog-Digital Hybrid Electro-Optic Chaotic Sources. <i>Journal of Lightwave Technology</i> , 2018, 36, 4995-5002.	4.6	16
146	Carrier Phase Recovery for Set-Partitioning QAM Formats. <i>Journal of Lightwave Technology</i> , 2018, 36, 4129-4137.	4.6	8
147	TDHQ Enabling Fine-Granularity Adaptive Loading for SSB-DMT Systems. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1687-1690.	2.5	4
148	Uniform Entropy Loading for Precoded DMT Systems in Fading Optical Channel. , 2018, , .		1
149	Achievable information rate enhancement of visible light communication using probabilistically shaped OFDM modulation. <i>Optics Express</i> , 2018, 26, 367.	3.4	34
150	Directional torsion and temperature discrimination based on a multicore fiber with a helical structure. <i>Optics Express</i> , 2018, 26, 544.	3.4	76
151	Light-controllable fiber interferometer utilizing photoexcitation dynamics in colloidal quantum dot. <i>Optics Express</i> , 2018, 26, 3903.	3.4	4
152	Real-time 100 Gbps/core NRZ and EDB IM/DD transmission over multicore fiber for intra-datacenter communication networks. <i>Optics Express</i> , 2018, 26, 10519.	3.4	31
153	Nonlinear equalization based on pruned artificial neural networks for 112-Gb/s SSB-PAM4 transmission over 80-km SSMF. <i>Optics Express</i> , 2018, 26, 10631.	3.4	62
154	Few-mode multicore fiber enabled integrated Mach-Zehnder interferometers for temperature and strain discrimination. <i>Optics Express</i> , 2018, 26, 15332.	3.4	37
155	On-chip cyclic-AWG-based 12-wavelength silicon wavelength routing switches with minimized port-to-port insertion loss fluctuation. <i>Photonics Research</i> , 2018, 6, 380.	7.0	9
156	Investigation of channel model for weakly coupled multicore fiber. <i>Optics Express</i> , 2018, 26, 5182.	3.4	27
157	Modulation format identification enabled by the digital frequency-offset loading technique for hitless coherent transceiver. <i>Optics Express</i> , 2018, 26, 7288.	3.4	36
158	Sparse-fast-Fourier-transform-based quick synchronization for optical direct detection orthogonal frequency division multiplexing systems. <i>Optics Letters</i> , 2018, 43, 2014.	3.3	3
159	Wavelength division multiplexing secure communication scheme based on an optically coupled phase chaos system and PM-to-IM conversion mechanism. <i>Nonlinear Dynamics</i> , 2018, 94, 1949-1959.	5.2	30
160	Spatial Division Multiplexing-Based Reflective Intensity-Modulated Fiber Optics Displacement Sensor. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	2.0	4
161	Fiber optics frequency comb enabled linear optical sampling with operation wavelength range extension. <i>Optics Letters</i> , 2018, 43, 439.	3.3	14
162	Compact double-part grating coupler for higher-order mode coupling. <i>Optics Letters</i> , 2018, 43, 3172.	3.3	34

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163	Arbitrary Bias Point Control Technique for Optical IQ Modulator Based on Dither-Correlation Detection. <i>Journal of Lightwave Technology</i> , 2018, 36, 3824-3836.	4.6	32
164	An Electrooptic Chaotic System Based on a Hybrid Feedback Loop. <i>Journal of Lightwave Technology</i> , 2018, 36, 4259-4266.	4.6	33
165	Precise calibration of spatial phase response nonuniformity arising in liquid crystal on silicon. <i>Optics Letters</i> , 2018, 43, 2993.	3.3	11
166	Investigation of DC-Biased Optical OFDM With Precoding Matrix for Visible Light Communications: Theory, Simulations, and Experiments. <i>IEEE Photonics Journal</i> , 2018, 10, 1-16.	2.0	17
167	Secure Strategy for OFDM-PON Using Digital Chaos Algorithm With Fixed-Point Implementation. <i>Journal of Lightwave Technology</i> , 2018, 36, 4826-4833.	4.6	22
168	Design of highly mode group selective photonic lanterns with geometric optimization. <i>Applied Optics</i> , 2018, 57, 7065.	1.8	10
169	Code reservation enabled PAPR reduction of digital CDM based channel aggregation for mobile fronthaul. <i>Optics Express</i> , 2018, 26, 21585.	3.4	2
170	Single-photodiode 112-Gbit/s 16-QAM transmission over 960-km SSMF enabled by Kramers-Kronig detection and sparse I/Q Volterra filter. <i>Optics Express</i> , 2018, 26, 24564.	3.4	22
171	Robust in-fiber spatial interferometer using multicore fiber for vibration detection. <i>Optics Express</i> , 2018, 26, 29629.	3.4	20
172	Compact Grating Coupler for Higher-order Mode Coupling. , 2018, , .		2
173	Digital chromatic dispersion pre-management enabled single-lane 112 Gb/s PAM-4 signal transmission over 80 km SSMF. <i>Optics Letters</i> , 2018, 43, 1495.	3.3	13
174	Radial basis function neural network enabled C-band 40 Gb/s PAM-4 transmission over 80 km SSMF. <i>Optics Letters</i> , 2018, 43, 3542.	3.3	31
175	Real-time 100 Gbps/core NRZ and EDB IM/DD Transmission over 10 km Multicore Fiber. , 2018, , .		2
176	Reconfigurable Inter-core Switching within Multicore Fiber. , 2018, , .		3
177	Blind and Fast Modulation Format Identification by Frequency-offset Loading for Hitless Flexible Transceiver. , 2018, , .		3
178	Link optimized few-mode fiber Raman distributed temperature sensors. <i>Applied Optics</i> , 2018, 57, 6923.	1.8	8
179	BOMA and OFDM/OQAM modulation for a radio-over-fiber system with enhanced spectral efficiency. <i>Optics Letters</i> , 2018, 43, 4859.	3.3	1
180	Linewidth-tolerant adaptive equalization scheme for OQAM. <i>Optics Communications</i> , 2017, 393, 89-94.	2.1	0

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