

Weisheng Hu

List of Publications by Year in descending order

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534
papers

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all docs

534
docs citations

534
times ranked

3753
citing authors

#	ARTICLE	IF	CITATIONS
1	Community Sports Organization Development From a Social Network Evolution Perspective“ Structures, Stages, and Stimulus. IEEE Transactions on Computational Social Systems, 2023, 10, 878-889.	4.4	1
2	Adaptive Probabilistic Shaping Using Polar Codes for FSO Communication. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	5
3	A Meta-Learning-Assisted Training Framework for Physical Layer Modeling in Optical Networks. Journal of Lightwave Technology, 2022, 40, 2684-2695.	4.6	4
4	An Elliptical-Core Few-Mode Fiber with Low Loss and Low Crosstalk for the MIMO-FREE Applications. Frontiers in Physics, 2022, 9, .	2.1	4
5	Multi-Dimensional Distribution Matching With Bit-Level Shaping for Probabilistically Shaped High Order Modulation Formats. Journal of Lightwave Technology, 2022, 40, 2870-2879.	4.6	7
6	Performance comparison of partial-response square shaped signal with direct detection. Optics Communications, 2022, 511, 127993.	2.1	0
7	Direct-sequence spread spectrum time division multiple access with direct detection for latency optimized passive optical network. Optics Communications, 2022, 510, 127955.	2.1	1
8	End-to-End Deep Learning for Long-haul Fiber Transmission Using Differentiable Surrogate Channel. Journal of Lightwave Technology, 2022, 40, 2807-2822.	4.6	15
9	Performance and Complexity Analysis of Conventional and Deep Learning Equalizers for the High-Speed IMDD PON. Journal of Lightwave Technology, 2022, 40, 4528-4538.	4.6	16
10	High-power narrow-linewidth fiber lasers using optical spectrum broadening based on high-order phase modulation of inversion probability-tuning sequence. Optics Express, 2022, 30, 8448.	3.4	10
11	Direct detection transmission of a PAM signal with power fading mitigation based on Alamouti coding and dual-drive MZM. Optics Express, 2022, 30, 9321.	3.4	0
12	A modified Volterra equalizer for compensation distortion in C-band DML-based short reach limited-bandwidth system with 80-Gb/s PAM-4 signals. Optics Communications, 2022, 513, 128105.	2.1	2
13	Fast and Accurate Waveform Modeling of Long-Haul Multi-Channel Optical Fiber Transmission Using a Hybrid Model-Data Driven Scheme. Journal of Lightwave Technology, 2022, 40, 4571-4580.	4.6	13
14	Radio-over-Fiber Transmission Supporting 65536-QAM at 25GHz Band with High-Pass Delta-Sigma Modulation and RF fading Mitigation. , 2022, , .		6
15	Pilot-Tone Assisted Successive Interference Cancellation for Uplink Power- and Frequency-Division Multiplexing Passive Optical Network. Journal of Lightwave Technology, 2022, 40, 4237-4245.	4.6	4
16	SOA Assisted Wavelength Reusing for 25G Colorless PON With Low-Cost 10G EAM. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	3
17	Coherent chaotic optical communication of 30 Gb/s over 340-km fiber transmission via deep learning. Optics Letters, 2022, 47, 2650.	3.3	28
18	A GMM-based non-uniform quantization scheme for improving low-resolution IMDD-UFMC system performance. Optical Fiber Technology, 2022, 71, 102943.	2.7	1

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19	Low-Complexity Triplet-Correlative Perturbative Fiber Nonlinearity Compensation for Long-Haul Optical Transmission. <i>Journal of Lightwave Technology</i> , 2022, 40, 5416-5425.	4.6	3
20	Fusing Physics to Fiber Nonlinearity Model for Optical Networks Based on Physics-Guided Neural Networks. <i>Journal of Lightwave Technology</i> , 2022, 40, 5793-5802.	4.6	3
21	Optical filtering impairment monitoring based on model fusion for optical networks. <i>Optics Express</i> , 2022, 30, 24639.	3.4	1
22	Net 5.75 Gbps/2 m Single-Pixel Blue Mini-LED Based Underwater Wireless Communication System Enabled by Partial Pre-Emphasis and Nonlinear Pre-Distortion. <i>Journal of Lightwave Technology</i> , 2022, 40, 6116-6122.	4.6	5
23	Real-Time Definite Sequence Modulation Based Spectral Broadening Scheme for High-Power Narrow-Linewidth Fiber Laser. <i>Journal of Lightwave Technology</i> , 2022, 40, 6222-6229.	4.6	3
24	High-Repetition-Rate Real-Time Automatic Mode-Locked Fibre Laser Enabled by a Pre-Stretch Technique. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 791-794.	2.5	1
25	FPGA-based digital chaotic anti-interference lidar system. <i>Optics Express</i> , 2021, 29, 719.	3.4	14
26	Inter-Datcenter Multicast with Store-and-Forward in Software-Defined Optical Networks. , 2021, , .		1
27	Real-time IBFD transmission system based on adaptive optical self-interference cancellation using the hybrid criteria regular triangle algorithm. <i>Optics Letters</i> , 2021, 46, 1069.	3.3	6
28	2.7 Gb/s Secure Key Generation and Distribution Using Bidirectional Polarization Scrambler in Fiber. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 289-292.	2.5	22
29	Ultra-fast RSOP tracking via 3 pilot tones for short-distance coherent SCM systems. <i>Optics Express</i> , 2021, 29, 8076.	3.4	9
30	Efficient Post-Processing for Physical-Layer Secure Key Distribution in Fiber. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 325-328.	2.5	7
31	284.8-Mb/s Physical-Layer Cryptographic Key Generation and Distribution in Fiber Networks. <i>Journal of Lightwave Technology</i> , 2021, 39, 1595-1601.	4.6	28
32	Digital-Analog Hybrid Optical Access Integrating 56-Gbps PAM-4 Signal and 5G mmWave Signal by Spectral Null Filling. <i>Journal of Lightwave Technology</i> , 2021, 39, 1278-1288.	4.6	9
33	Proposal of Unsupervised Gas Classification by Multimode Microresonator. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	2.0	6
34	Physical Layer Dynamic Key Encryption in OFDM-PON System Based on Cellular Neural Network. <i>IEEE Photonics Journal</i> , 2021, 13, 1-14.	2.0	17
35	Trading off security and practicability to explore high-speed and long-haul chaotic optical communication. <i>Optics Express</i> , 2021, 29, 12750.	3.4	27
36	Experimental Demonstration of Multimode Microresonator Sensing by Machine Learning. <i>IEEE Sensors Journal</i> , 2021, 21, 9046-9053.	4.7	13

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37	Frequency-offset-tolerant optical frequency comb-based coherent transmission for intra-datacenter interconnections. <i>Optics Express</i> , 2021, 29, 17522.	3.4	6
38	ROADM-Induced Anomaly Localization and Evaluation for Optical Links Based on Receiver DSP and ML. <i>Journal of Lightwave Technology</i> , 2021, 39, 2696-2703.	4.6	11
39	Point to multi-point physical-layer key generation and distribution in passive optical networks. <i>Optics Letters</i> , 2021, 46, 3223.	3.3	13
40	A Data-Fusion-Assisted Telemetry Layer for Autonomous Optical Networks. <i>Journal of Lightwave Technology</i> , 2021, 39, 3400-3411.	4.6	9
41	Machine-learning-based telemetry for monitoring long-haul optical transmission impairments: methodologies and challenges [Invited]. <i>Journal of Optical Communications and Networking</i> , 2021, 13, E94.	4.8	12
42	16.8 Tb/s True Random Number Generator Based on Amplified Spontaneous Emission. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 699-702.	2.5	5
43	Subcarrier-pairing entropy loading for digital subcarrier-multiplexing systems with colored-SNR distributions. <i>Optics Express</i> , 2021, 29, 28852.	3.4	4
44	Simplified SVM Equalization Algorithm Based on Single Hyperplane Training Enabled 50Gb/s PAM-4/8 With 10-G Optics in NG-PON System. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	2.0	5
45	FPGA-Based Dual-Pulse Anti-Interference Lidar System Using Digital Chaotic Pulse Position Modulation. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 757-760.	2.5	10
46	Dimensioning access link capacity for time-varying traffic with mixed packet streams and circuit connections. <i>Journal of Optical Communications and Networking</i> , 2021, 13, 276.	4.8	2
47	An Interpretable Mapping From a Communication System to a Neural Network for Optimal Transceiver-Joint Equalization. <i>Journal of Lightwave Technology</i> , 2021, 39, 5449-5458.	4.6	9
48	Secure OFDM-PON Using Chaotic Constellation Mapping and Probabilistic Shaping. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1139-1142.	2.5	8
49	Modulation format identification under stringent bandwidth limitation based on an artificial neural network. <i>OSA Continuum</i> , 2021, 4, 96.	1.8	10
50	Parallel Bisection-based Distribution Matching for Nonlinearity-tolerant Probabilistic Shaping in Coherent Optical Communication Systems. <i>Journal of Lightwave Technology</i> , 2021, 39, 6459-6469.	4.6	13
51	Effect of ADC parameters on neural network based chaotic optical communication. <i>Optics Letters</i> , 2021, 46, 90.	3.3	8
52	Interpretable and visualized SHAP-based equalizer with feature selection in IMDD system. , 2021, , .		0
53	Neural-network-based Generalized Filter for Inter-channel Nonlinear Compensation in Long-haul Optical Transmission. , 2021, , .		0
54	FPGA-based Implementation of Artificial Neural Network for Nonlinear Signal-to-Noise Ratio Estimation. , 2021, , .		2

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55	Gb/s Secure Key Distribution Based on Synchronization of Polarization States. , 2021, , .		0
56	C-Band Direct Detection Transmission of 90Gbaud PAM-6/4 Over 10/20km SSMF with 2-Tap Pre-Equalization and Skew-Enabled VSB Shaping. , 2021, , .		1
57	Slicing and Sliding Algorithm Compatible with PAM/SCM Signal for Chirp and Dispersion Induced Distortion Compensation in DML-Based DD System. , 2021, , .		0
58	A Meta-learning-assisted Training Framework with Confidence Interval for Optical Network Modeling. , 2021, , .		0
59	Quantization Noise-Aware Partial Pre-Emphasis Model and Experimental Validation in High-Speed IM-DD System. , 2021, , .		2
60	Faster-Than-Nyquist Subcarrier Modulation Utilizing Digital Brick-Wall Filter-Based THP for Band-Limited DML-DD Systems. , 2021, , .		0
61	Imbalanced Mach-Zehnder Modulator for Fading Suppression in Dispersion-Uncompensated Direct Detection System. Electronics (Switzerland), 2021, 10, 2866.	3.1	5
62	Enabling Technologies for Comprehensive Optical Mobile Fronthaul Access Network. , 2021, , .		2
63	Cluster Mobile Fronthaul over WDM-PON with Remote Port Irrelevance Based on Cyclic-AWG and Coarse Filters. , 2021, , .		0
64	A Nonuniform Quantization Scheme based on Optical Phase-shifted Devices. , 2021, , .		0
65	Adaptive Probabilistic Shaping of PAM-4 using Polar Codes for FSO Communication. , 2021, , .		0
66	Bi-Directional Interleaved Sub-Band Amplification in DWDM Application Using Single Unidirectional EDFA and 8 th Cyclic-AWG. , 2021, , .		2
67	Over 3.5dB Receiver Sensitivity Improvement with Twisted-PAM8 in Short-reach Applications. , 2021, , .		0
68	Sub-sampling generation of ultra-high baud rate PAM/QAM signals via high-order partial response narrowing. Optics Express, 2021, 29, 44063.	3.4	6
69	Optics-Simplified DSP for 50 th Gb/s PON Downstream Transmission using 10 th Gb/s Optical Devices. Journal of Lightwave Technology, 2020, 38, 583-589.	4.6	20
70	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
71	200 Gbps/Lane IM/DD Technologies for Short Reach Optical Interconnects. Journal of Lightwave Technology, 2020, 38, 492-503.	4.6	117
72	Genetic Algorithm-Based Fast Real-Time Automatic Mode-Locked Fiber Laser. IEEE Photonics Technology Letters, 2020, 32, 7-10.	2.5	19

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73	A Partial Store-and-Forward Scheduling Method for Inter-Datacenter Bulk Data Transfers. IEEE Access, 2020, 8, 128167-128181.	4.2	5
74	Time-Domain Blind ICI Compensation in Coherent Optical FBMC/OQAM System. Sensors, 2020, 20, 6397.	3.8	1
75	Secure Key Generation and Distribution Using Polarization Dynamics in Fiber. , 2020, , .		2
76	A study on performance improvement of IMDD-UFMC with modified K-means non-uniform quantization. Optics Communications, 2020, 476, 126324.	2.1	6
77	Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	6
78	Workload Based Geo-Distributed Data Center Planning in Fast Developing Economies. IEEE Access, 2020, 8, 224269-224282.	4.2	1
79	50 Gbps PAM-4 Over Up to 80-km Transmission With C-Band DML Enabled by Post-Equalizer. IEEE Photonics Technology Letters, 2020, 32, 643-646.	2.5	31
80	An overview of ML-based applications for next generation optical networks. Science China Information Sciences, 2020, 63, 1.	4.3	9
81	Research on a novel mode division multiplexer with low crosstalk, low loss and few mode ring-core transmission channel. Optics Communications, 2020, 469, 125778.	2.1	7
82	Comparative study of cost-effective coherent and direct detection schemes for 100 Gb/s PON. Journal of Optical Communications and Networking, 2020, 12, D36.	4.8	32
83	A State-Merging Scheduling Method for Bulk Transfers with Store-and-Forward over Inter-DC Optical Networks. , 2020, , .		2
84	Post-Processing Protocol for Physical-Layer Key Generation and Distribution in Fiber Networks. IEEE Photonics Technology Letters, 2020, 32, 901-904.	2.5	13
85	Time-Space Decoupled SnF Scheduling of Bulk Transfers Across Inter-Datacenter Optical Networks. IEEE Access, 2020, 8, 24829-24846.	4.2	3
86	Two-dimensional projection histogram assisted with low-overhead pilots for the common phase error compensation in CO-OFDM system. Optical Fiber Technology, 2020, 54, 102131.	2.7	0
87	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
88	Comparative investigation on 10G-class and 25G-class receivers for O-band DML-based 25/50 Gbps TDM-PON. Optical Fiber Technology, 2020, 54, 102105.	2.7	1
89	Intelligent control of mode-locked femtosecond pulses by time-stretch-assisted real-time spectral analysis. Light: Science and Applications, 2020, 9, 13.	16.6	55
90	Multi-Parameter Sensing in a Multimode Self-Interference Micro-Ring Resonator by Machine Learning. Sensors, 2020, 20, 709.	3.8	21

#	ARTICLE	IF	CITATIONS
91	Soft Failure Identification for Long-haul Optical Communication Systems Based on One-dimensional Convolutional Neural Network. <i>Journal of Lightwave Technology</i> , 2020, 38, 2992-2999.	4.6	30
92	Unsupervised Learning for Neural Network-Based Blind Equalization. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 569-572.	2.5	10
93	Real-time secure optical OFDM transmission with chaotic data encryption. <i>Optics Communications</i> , 2020, 473, 126005.	2.1	13
94	A novel six-core few-mode fiber with low loss and low crosstalk. <i>Optical Fiber Technology</i> , 2020, 57, 102211.	2.7	17
95	Performance study of an SnF scheduling method for bulk data transfers over inter-datacenter WANs. <i>Optical Switching and Networking</i> , 2020, 37, 100558.	2.0	2
96	Automatic mode-locking fiber lasers: progress and perspectives. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	23
97	Performance and Cost of Upstream Resource Allocation for Inter-Edge-Datacenter Bulk Transfers. , 2020, , .		3
98	Chaotic Optical Communication Over 1000 km Transmission by Coherent Detection. <i>Journal of Lightwave Technology</i> , 2020, 38, 4648-4655.	4.6	44
99	Optical Filtering Impairment Monitoring Based on Artificial Neural Network in Coherent Receiver. , 2020, , .		3
100	Neural network decoder of polar codes with tanh-based modified LLR over FSO turbulence channel. <i>Optics Express</i> , 2020, 28, 1679.	3.4	10
101	Computationally efficient 104 Gb/s PWL-Volterra equalized 2D-TCM-PAM8 in dispersion unmanaged DML-DD system. <i>Optics Express</i> , 2020, 28, 7070.	3.4	14
102	Degenerated look-up table-based perturbative fiber nonlinearity compensation algorithm for probabilistically shaped signals. <i>Optics Express</i> , 2020, 28, 13401.	3.4	6
103	Symmetric carrier assisted differential detection receiver with low-complexity signal-signal beating interference mitigation. <i>Optics Express</i> , 2020, 28, 19008.	3.4	19
104	A Three-stage Training Framework for Customizing Link Models for Optical Networks. , 2020, , .		6
105	Anomaly Localization in Optical Transmissions Based on Receiver DSP and Artificial Neural Network. , 2020, , .		9
106	Adaptive over-the-air RF self-interference cancellation using a signal-of-interest driven regular triangle algorithm. <i>Optics Letters</i> , 2020, 45, 1264.	3.3	7
107	Hybrid wideband multipath self-interference cancellation with an LMS pre-adaptive filter for in-band full-duplex OFDM signal transmission. <i>Optics Letters</i> , 2020, 45, 6382.	3.3	13
108	AI-Based Modeling and Monitoring Techniques for Future Intelligent Elastic Optical Networks. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 363.	2.5	33

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109	Carrier-Suppressed Modified Duobinary PAM-4 Signal for Short Reach Transmission. , 2020, , .		2
110	Machine Learning Based Fiber Nonlinear Noise Monitoring for Subcarrier-multiplexing Systems. , 2020, , .		2
111	Computationally Efficient 120 Gb/s/λ PWL Equalized 2D-TCM-PAM8 in Dispersion Unmanaged DML-DD System. , 2020, , .		2
112	A Meta-learning-assisted Training Framework for AI Deployment in Optical Networks. , 2020, , .		2
113	Transmission Performance Evaluation Throughout the Life Cycle of Lightpath in Intelligent Optical Networks. , 2020, , .		0
114	Multi-dimensional Distribution Matching for Probabilistically Shaped High Order Modulation Format. , 2020, , .		4
115	Q-Learning Based Joint Allocation of Fronthaul and Radio Resources in Multiwavelength-Enabled C-RAN. Lecture Notes in Computer Science, 2020, , 623-634.	1.3	0
116	Neural Network-based equalization in high-speed PONs. , 2020, , .		11
117	DSP-aided Telemetry in Monitoring Linear and Nonlinear Optical Transmission Impairments. , 2020, , .		1
118	A new LightGBM-based Equalizer enabled high-capacity PAM-4 and NRZ transmission in the 10-G class system. , 2020, , .		0
119	Polar coded probabilistic amplitude shaping for the free space optical atmospheric turbulence channel. Optics Express, 2020, 28, 33208.	3.4	10
120	Training data generation and validation for a neural network-based equalizer. Optics Letters, 2020, 45, 5113.	3.3	16
121	Blind adaptive degenerated look-up table based perturbative nonlinear compensation for 16QAM probabilistically shaped signals. , 2020, , .		0
122	Time skew enabled vestigial sideband modulation for dispersion-tolerant direct detection transmission. Optics Letters, 2020, 45, 6138.	3.3	8
123	Chaos Synchronization Error Compensation by Neural Network. IEEE Photonics Technology Letters, 2019, 31, 1104-1107.	2.5	12
124	On-Chip All-Optical Wavelength Conversion of PAM-4 Signals Using an Integrated SOA-Based Turbo-Switch Circuit. Journal of Lightwave Technology, 2019, 37, 3956-3962.	4.6	11
125	Optical Grooming Capable Wavelength Division Multiplexing node architecture for beyond 100 Gbps transport. Optical Switching and Networking, 2019, 34, 67-78.	2.0	3
126	All-Optical Wavelength Conversion in an InP Photonic Integrated Turbo-Switch. IEEE Photonics Technology Letters, 2019, 31, 1576-1579.	2.5	1

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127	Physical-Layer OFDM Data Encryption using Chaotic QAM Mapping. , 2019, , .		2
128	Chaotic image encryption algorithm using frequency-domain DNA encoding. IET Image Processing, 2019, 13, 1535-1539.	2.5	61
129	A Powerful Equalizer Based on Modified SVM Classifier Without Nonlinear Kernel Enabled 100-Gb/s NG-EPON System With 10-G Class. IEEE Access, 2019, 7, 71185-71194.	4.2	10
130	Advanced Optical Transmission Technologies for 5G Fronthaul. , 2019, , .		1
131	Joint Allocation of Radio and Fronthaul Resources in Multi-Wavelength-Enabled C-RAN Based on Reinforcement Learning. Journal of Lightwave Technology, 2019, 37, 5780-5789.	4.6	9
132	Real-Time Observation of the Regime Transition Dynamics of Mode-Locked Fiber Lasers. IEEE Photonics Technology Letters, 2019, 31, 1545-1548.	2.5	7
133	Chaotic Arnold transform and chirp matrix encryption scheme for enhancing the performance and security of OFDM-PON. Optical Fiber Technology, 2019, 51, 64-70.	2.7	13
134	Application of Machine Learning in Fiber Nonlinearity Modeling and Monitoring for Elastic Optical Networks. Journal of Lightwave Technology, 2019, 37, 3055-3063.	4.6	68
135	Mechanism Design and Performance Analysis of Coordinated Registration Protocol for NG-EPON. Journal of Optical Communications and Networking, 2019, 11, 107.	4.8	9
136	A long single-span dispersion-decreasing-like fiber transmission system. Optics and Laser Technology, 2019, 116, 338-344.	4.6	7
137	High-Resolution Brillouin Optoelectronic Oscillator Using High-Order Sideband Injection-Locking. IEEE Photonics Technology Letters, 2019, 31, 513-516.	2.5	7
138	A comprehensive optical mobile fronthaul network toward high-fidelity, flexible and low-latency transport. Photonic Network Communications, 2019, 37, 322-334.	2.7	1
139	Low overhead equalization algorithm for simultaneously estimating channel and mitigating intrinsic imaginary interference in IMDD-OQAM-OFDM system. Optics Communications, 2019, 430, 256-261.	2.1	13
140	Machine Learning for 100 Gb/s; Passive Optical Network. Journal of Lightwave Technology, 2019, 37, 1621-1630.	4.6	92
141	Real-time adaptive optical self-interference cancellation system for in-band full-duplex transmission. Optics Communications, 2019, 437, 259-263.	2.1	11
142	A novel FABP quantization scheme for improving performance in low-bit IMDD-FBMC system. Optics Communications, 2019, 437, 199-203.	2.1	6
143	Chaotic distribution of QAM symbols for secure OFDM signal transmission. Optical Fiber Technology, 2019, 47, 61-65.	2.7	14
144	Low-Complexity Blind Carrier Phase Recovery for C-mQAM Coherent Systems. IEEE Photonics Journal, 2019, 11, 1-14.	2.0	4

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145	Multi-Gbit/s real-time modems for chaotic optical OFDM data encryption and decryption. Optics Communications, 2019, 432, 39-43.	2.1	6
146	Dimensioning of store-and-transfer WDM networks with stratified ROADM node. Optical Switching and Networking, 2019, 31, 100-113.	2.0	6
147	Multidimensional vector quantization-based fast statistical estimation in compressed digitalized radio-over-fiber systems. Applied Optics, 2019, 58, 3418.	1.8	4
148	Dissipative sensing with low detection limit in a self-interference microring resonator. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 942.	2.1	18
149	Adaptive optical self-interference cancellation for in-band full-duplex systems using regular triangle algorithm. Optics Express, 2019, 27, 4116.	3.4	14
150	Nonlinear Tomlinson-Harashima precoding for direct-detected double sideband PAM-4 transmission without dispersion compensation. Optics Express, 2019, 27, 19156.	3.4	29
151	Brillouin-based dual-frequency microwave signals generation using polarization-multiplexing modulation. Optics Express, 2019, 27, 24847.	3.4	6
152	Reservoir computing system with double optoelectronic feedback loops. Optics Express, 2019, 27, 27431.	3.4	53
153	Error-free secure key generation and distribution using dynamic Stokes parameters. Optics Express, 2019, 27, 29207.	3.4	38
154	Accelerated key generation and distribution using polarization scrambling in optical fiber. Optics Express, 2019, 27, 35761.	3.4	27
155	Single-step digital backpropagation for subcarrier-multiplexing transmissions. Optics Express, 2019, 27, 36680.	3.4	8
156	Beyond 200 Gbps per Lane Intensity Modulation Direct Detection (IM/DD) Transmissions for Optical Interconnects: Challenges and Recent Developments. , 2019, , .		14
157	32â€‰Gb/s chaotic optical communications by deep-learning-based chaos synchronization. Optics Letters, 2019, 44, 5776.	3.3	63
158	Intelligent programmable mode-locked fiber laser with a human-like algorithm. Optica, 2019, 6, 362.	9.3	99
159	SVM-Modified-FFE Enabled Chirp Management for 10G DML-based 50Gb/s/Î» PAM4 IM-DD PON. , 2019, , .		8
160	Key technologies to enable terabit-scale digital radio-over-fiber systems. , 2019, , .		0
161	Digital image encryption using chaotic DNA encoding in frequency-domain. , 2019, , .		0
162	Machine learning classifier based on FE-KNN enabled high-capacity PAM-4 and NRZ transmission with 10-G class optics. Optics Express, 2019, 27, 25802.	3.4	9

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163	Modular AWC-based Interconnection for Large-Scale Data Center Networks. IEEE Transactions on Cloud Computing, 2018, 6, 785-799.	4.4	17
164	Flexible Hybrid PAM2/4 for Fidelity Optimization in Digital Mobile Fronthaul. IEEE Photonics Technology Letters, 2018, 30, 599-602.	2.5	5
165	OLS-Based RBF Neural Network for Nonlinear and Linear Impairments Compensation in the CO-OFDM System. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	6
166	Overlapping shared segment protection in store-and-transfer WDM networks under sliding scheduled traffic model. Optical Switching and Networking, 2018, 29, 1-14.	2.0	1
167	Chaotic Constellation Mapping for Physical-Layer Data Encryption in OFDM-PON. IEEE Photonics Technology Letters, 2018, 30, 339-342.	2.5	51
168	Flexible Baseband-Unit Aggregation Enabled by Reconfigurable Multi-IF Over WDM Fronthaul. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	8
169	Key Distribution Based on Phase Fluctuation Between Polarization Modes in Optical Channel. IEEE Photonics Technology Letters, 2018, 30, 704-707.	2.5	35
170	A Parallel Complex Coloring Algorithm for Scheduling of Input-Queued Switches. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1456-1468.	5.6	12
171	Chirp-aided power fading mitigation for upstream 100km full-range long reach PON with DBR DML. Optics Communications, 2018, 407, 63-68.	2.1	16
172	Symmetric 100-Gb/s TWDM-PON in O-Band Based on 10G-Class Optical Devices Enabled by Dispersion-Supported Equalization. Journal of Lightwave Technology, 2018, 36, 580-586.	4.6	25
173	Power budget enhancement in NG-EPON system employing novel twisted-PAM4. Optics Communications, 2018, 410, 627-631.	2.1	4
174	Secure OFDM Transmission Precoded by Chaotic Discrete Hartley Transform. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	35
175	Fast Statistical Estimation with Vector Quantization in Compressed Digital RoF System. , 2018, , .		0
176	Edge-buffered Contention-resolution Hybrid Optical/Electrical Switch for Data Center Networks. , 2018, , .		1
177	All-Optical Wavelength Conversion of PAM-4 Signal using Photonic Integrated Turbo-Switch. , 2018, , .		2
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