

Roger Giddings

List of Publications by Year in descending order

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186
papers

2,374
citations

185998

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186
all docs

186
docs citations

186
times ranked

1150
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental demonstration of a record high 1125Gb/s real-time optical OFDM transceiver supporting 25km SMF end-to-end transmission in simple IMDD systems. Optics Express, 2010, 18, 5541.	1.7	171
2	Physical-Enhanced Secure Strategy for OFDMA-PON Using Chaos and Deoxyribonucleic Acid Encoding. Journal of Lightwave Technology, 2018, 36, 1706-1712.	2.7	87
3	Experimental Demonstration of Security-Enhanced OFDMA-PON Using Chaotic Constellation Transformation and Pilot-Aided Secure Key Agreement. Journal of Lightwave Technology, 2017, 35, 1524-1530.	2.7	85
4	Security enhancement for OFDM-PON using Brownian motion and chaos in cell. Optics Express, 2018, 26, 22857.	1.7	59
5	Experimental Demonstrations and Extensive Comparisons of End-to-End Real-Time Optical OFDM Transceivers With Adaptive Bit and/or Power Loading. IEEE Photonics Journal, 2011, 3, 500-511.	1.0	57
6	Wavelength reused bidirectional transmission of adaptively modulated optical OFDM signals in WDM-PONs incorporating SOA and RSOA intensity modulators. Optics Express, 2010, 18, 9791.	1.7	55
7	Digital Filter Multiple Access PONs With DSP-Enabled Software Reconfigurability. Journal of Optical Communications and Networking, 2015, 7, 215.	3.3	54
8	Brownian Motion Encryption for Physical-Layer Security Improvement in CO-OFDM-PON. IEEE Photonics Technology Letters, 2017, 29, 1023-1026.	1.3	54
9	Experimental Demonstration of Real-Time Optical OFDM Transmission at 7.5 Gb/s Over 25-km SSMF Using a 1-GHz RSOA. IEEE Photonics Technology Letters, 2010, 22, 745-747.	1.3	49
10	Experimental demonstration of record high 19125Gb/s real-time end-to-end dual-band optical OFDM transmission over 25km SMF in a simple EML-based IMDD system. Optics Express, 2012, 20, 20666.	1.7	45
11	Real-time demonstration of 128-QAM-encoded optical OFDM transmission with a 525bit/s/Hz spectral efficiency in simple IMDD systems utilizing directly modulated DFB lasers. Optics Express, 2009, 17, 20484.	1.7	44
12	Significant improvements in optical power budgets of real-time optical OFDM PON systems. Optics Express, 2010, 18, 20732.	1.7	43
13	Joint PAPR Reduction and Physical Layer Security Enhancement in OFDMA-PON. IEEE Photonics Technology Letters, 2016, , 1-1.	1.3	39
14	Constellation Shaping Chaotic Encryption Scheme With Controllable Statistical Distribution for OFDM-PON. Journal of Lightwave Technology, 2022, 40, 14-23.	2.7	39
15	Real-time Digital Signal Processing for Optical OFDM-Based Future Optical Access Networks. Journal of Lightwave Technology, 2014, 32, 553-570.	2.7	38
16	Wideband Time Delay Signature-Suppressed Chaos Generation Using Self-Phase-Modulated Feedback Semiconductor Laser Cascaded With Dispersive Component. Journal of Lightwave Technology, 2019, 37, 5132-5139.	2.7	38
17	Experimental demonstration and optimisation of a synchronous clock recovery technique for real-time end-to-end optical OFDM transmission at 1125Gb/s over 25km SSMF. Optics Express, 2011, 19, 2831.	1.7	37
18	Real-time experimental demonstration of a low-cost VCSEL intensity-modulated 1125Gb/s optical OFDM signal transmission over 25km PON systems. Optics Express, 2011, 19, 2979.	1.7	35

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19	First real-time experimental demonstrations of 1125Gb/s optical OFDMA PONs with adaptive dynamic bandwidth allocation. Optics Express, 2011, 19, 20557.	1.7	35
20	Real-time experimental demonstration of optical OFDM symbol synchronization in directly modulated DFB laser-based 25km SMF IMDD systems. Optics Express, 2010, 18, 21100.	1.7	34
21	Semiconductor Optical Amplifier-Enabled Intensity Modulation of Adaptively Modulated Optical OFDM Signals in SMF-Based IMDD Systems. Journal of Lightwave Technology, 2009, 27, 3678-3688.	2.7	33
22	Digital Orthogonal Filter-Enabled Optical OFDM Channel Multiplexing for Software-Reconfigurable Elastic PONs. Journal of Lightwave Technology, 2014, 32, 1200-1206.	2.7	33
23	Real-time experimental demonstrations of software reconfigurable optical OFDM transceivers utilizing DSP-based digital orthogonal filters for SDN PONs. Optics Express, 2014, 22, 19674.	1.7	32
24	Colourless adaptively modulated optical OFDM transmitters using SOAs as intensity modulators. Optics Express, 2009, 17, 9012.	1.7	31
25	Real-time transmission of 3Gb/s 16-QAM encoded optical OFDM signals over 75km SMFs with negative power penalties. Optics Express, 2009, 17, 14574.	1.7	30
26	Physically enhanced secure wavelength division multiplexing chaos communication using multimode semiconductor lasers. Nonlinear Dynamics, 2016, 86, 1937-1949.	2.7	30
27	Security Improvement for OFDM-PON via DNA Extension Code and Chaotic Systems. IEEE Access, 2020, 8, 75119-75126.	2.6	29
28	Hybrid Chaotic Confusion and Diffusion for Physical Layer Security in OFDM-PON. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	28
29	Physically Secured Optical OFDM-PON by Employing Chaotic Pseudorandom RF Subcarriers. IEEE Photonics Journal, 2017, 9, 1-8.	1.0	28
30	Optical True Time Delay Pools Based Centralized Beamforming Control for Wireless Base Stations Phased-Array Antennas. Journal of Lightwave Technology, 2018, 36, 3693-3699.	2.7	28
31	Record-high and robust 17125 Gb/s gross-rate over 25 km SSMF transmissions of real-time dual-band optical OFDM signals directly modulated by 1 GHz RSOAs. Optics Express, 2014, 22, 6339.	1.7	27
32	Experimental demonstration of real-time 3Gb/s optical OFDM transceivers. Optics Express, 2009, 17, 16654.	1.7	26
33	First experimental demonstration of 6Gb/s real-time optical OFDM transceivers incorporating channel estimation and variable power loading. Optics Express, 2009, 17, 19727.	1.7	26
34	Negative Power Penalties of Optical OFDM Signal Transmissions in Directly Modulated DFB Laser-Based IMDD Systems Incorporating Negative Dispersion Fibers. IEEE Photonics Journal, 2010, 2, 532-542.	1.0	25
35	Chaotic Multilevel Separated Encryption for Security Enhancement of OFDM-PON. IEEE Access, 2019, 7, 124452-124460.	2.6	25
36	Experimental Demonstration of Upstream Transmission in Digital Filter Multiple Access PONs With Real-Time Reconfigurable Optical Network Units. Journal of Optical Communications and Networking, 2017, 9, 45.	3.3	24

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37	Hybrid OFDM-Digital Filter Multiple Access PONs. Journal of Lightwave Technology, 2018, 36, 5640-5649.	2.7	23
38	Secure Optical Communication Based on Cluster Chaos Synchronization in Semiconductor Lasers Network. IEEE Access, 2020, 8, 11872-11879.	2.6	23
39	Hybrid SSB OFDM-Digital Filter Multiple Access PONs. Journal of Lightwave Technology, 2020, 38, 2095-2105.	2.7	23
40	DSP-Enabled Flexible ROADMs Without Optical Filters and O-E-O Conversions. Journal of Lightwave Technology, 2015, 33, 4124-4131.	2.7	22
41	Multiple Channel Interference Cancellation of Digital Filter Multiple Access PONs. Journal of Lightwave Technology, 2017, 35, 34-44.	2.7	22
42	Characterization of Passive Optical Components by DSP-Based Optical Channel Estimation. IEEE Photonics Technology Letters, 2012, 24, 443-445.	1.3	21
43	Secure Key Distribution based on Dynamic Chaos Synchronization of Cascaded Semiconductor Laser Systems. IEEE Transactions on Communications, 2016, , 1-1.	4.9	21
44	Experimental Demonstration of a Real-Time Digital Filter Multiple Access PON With Low Complexity DSP-Based Interference Cancellation. Journal of Lightwave Technology, 2019, 37, 4315-4329.	2.7	20
45	Experimental Demonstration of Real-Time Optical OFDM Transmission at 11.25 Gb/s Over 500-m MMFs Employing Directly Modulated DFB Lasers. IEEE Photonics Technology Letters, 2011, 23, 51-53.	1.3	19
46	REAM intensity modulator-enabled 10Gb/s colorless upstream transmission of real-time optical OFDM signals in a single-fiber-based bidirectional PON architecture. Optics Express, 2012, 20, 21089.	1.7	18
47	Directly Modulated VCSEL-Based Real-Time 11.25-Gb/s Optical OFDM Transmission Over 2000-m Legacy MMFs. IEEE Photonics Journal, 2012, 4, 143-154.	1.0	18
48	Modified Constant Modulus Algorithm With Polarization Demultiplexing in Stokes Space in Optical Coherent Receiver. Journal of Lightwave Technology, 2013, 31, 3203-3209.	2.7	17
49	Subcarrier Index-Power Modulated Optical OFDM and Its Performance in IMDD PON Systems. Journal of Lightwave Technology, 2016, 34, 2228-2234.	2.7	17
50	Experimental demonstrations of 30Gb/s/λ digital orthogonal filtering-multiplexed multiple channel transmissions over IMDD PON systems utilizing 10G-class optical devices. Optics Express, 2017, 25, 24251.	1.7	17
51	Data-Aided Iterative Algorithms for Linearizing IM/DD Optical Transmission Systems. Journal of Lightwave Technology, 2021, 39, 2864-2872.	2.7	17
52	Phase Masking and Time-Frequency Chaotic Encryption for DFMA-PON. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	16
53	Phase Noise Effects on Phase-Modulated Coherent Optical OFDM. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	14
54	Experimental demonstration of a DSP-based cross-channel interference cancellation technique for application in digital filter multiple access PONs. Optics Express, 2017, 25, 3850.	1.7	14

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55	Developed Density Peak Clustering With Support Vector Data Description for Access Network Intrusion Detection. IEEE Access, 2018, 6, 46356-46362.	2.6	14
56	Performance Improvement of Optical OFDMA-PON Using Data Clipping and Additional Phases. IEEE Photonics Technology Letters, 2012, 24, 255-257.	1.3	13
57	Self-seeding-based 10Gb/s over 25km optical OFDM transmissions utilizing face-to-face dual-RSOAs at gain saturation. Optics Express, 2014, 22, 11954.	1.7	13
58	Hybrid DFT-Spread OFDM-Digital Filter Multiple Access PONs for Converged 5G Networks. Journal of Optical Communications and Networking, 2019, 11, 347.	3.3	13
59	Complexity Reduction With a Simplified MIMO Volterra Filter for PDM-Twin-SSB PAM-4 Transmission. Journal of Lightwave Technology, 2020, 38, 769-776.	2.7	13
60	Semiconductor Laser-Based Multi-Channel Wideband Chaos Generation Using Optoelectronic Hybrid Feedback and Parallel Filtering. Journal of Lightwave Technology, 2022, 40, 751-761.	2.7	13
61	Bidirectional Radio Frequency Up-Converted Orthogonal Frequency-Division Multiple Access Passive Optical Network With Novel Source-Free Optical Network Units Using Four-Wave Mixing in Semiconductor Optical Amplifier. IEEE Photonics Technology Letters, 2012, 24, 2206-2209.	1.3	12
62	Upstream Power Budgets of IMDD Optical OFDMA PONs Incorporating RSOA Intensity Modulator-Based Colorless ONUs. Journal of Lightwave Technology, 2013, 31, 1914-1920.	2.7	12
63	Hybrid bidirectional radio-over-fiber-based orthogonal frequency division multiple access-passive optical network supporting 60 / 120 GHz using offset quadrature phase shift keying. Optical Engineering, 2015, 54, 096108.	0.5	12
64	Security Enhancement in Coherent OFDM Optical Transmission With Chaotic Three-Dimensional Constellation Scrambling. Journal of Lightwave Technology, 2022, 40, 3749-3760.	2.7	12
65	Multi-constraint Gerchberg-Saxton iteration algorithms for linearizing IM/DD transmission systems. Optics Express, 2022, 30, 10019.	1.7	12
66	Experimental Demonstration of Polarization-Dependent Loss Monitoring and Compensation in Stokes Space for Coherent Optical PDM-OFDM. Journal of Lightwave Technology, 2014, 32, 4528-4533.	2.7	11
67	Multilevel power transfer function characterization of nonlinear optical loop mirror. , 2017, , .		11
68	Real-time experimental demonstration of DSP-enabled soft-ROADMs with multi-level flexible add/drop functions for cloud access networks. Optics Express, 2019, 27, 16.	1.7	11
69	Stage-Dependent DSP Operation Range Clipping-Induced Bit Resolution Reductions of Full Parallel 64-Point FFTs Incorporated in FPGA-Based Optical OFDM Receivers. Journal of Lightwave Technology, 2016, 34, 3752-3760.	2.7	10
70	Experimental demonstrations of record high REAM intensity modulator-enabled 1925Gb/s real-time end-to-end dual-band optical OFDM colorless transmissions over 25km SSMF IMDD systems. Optics Express, 2013, 21, 9167.	1.7	9
71	Non-optical Carrier SSB-OFDM PONs With the Improved Receiver Sensitivity and Potential Transmission Nonlinearity Tolerance. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	9
72	Experimental Demonstrations of Hybrid OFDM-Digital Filter Multiple Access PONs. IEEE Photonics Technology Letters, 2020, , 1-1.	1.3	9

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73	Cascaded Nonlinear-Optical Loop Mirror-Based All-Optical PAM Regenerator. Applied Sciences (Switzerland), 2020, 10, 206.	1.3	9
74	Low Complexity Two-Stage FOE Using Modified Zoom-FFT for Coherent Optical M-QAM Systems. IEEE Photonics Technology Letters, 2020, 32, 263-266.	1.3	9
75	Hybrid time-frequency domain chaotic interleaving for physical-layer security enhancement in OFDM-PON systems. , 2016, , .		8
76	Energy-efficient orthogonal frequency division multiplexing-based passive optical network based on adaptive sleep-mode control and dynamic bandwidth allocation. Optical Engineering, 2016, 55, 026108.	0.5	8
77	Energy-Efficient and Survivable Optical Access Network Based on Multilayer-Ring Structure. IEEE Photonics Journal, 2017, 9, 1-19.	1.0	8
78	DSP-enabled reconfigurable and transparent spectral converters for converging optical and mobile fronthaul/backhaul networks. Optics Express, 2017, 25, 13836.	1.7	8
79	Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	8
80	Concurrent Inter-ONU Communications for Next Generation Mobile Fronthauls based on IMDD Hybrid SSB OFDM-DFMA PONs. Journal of Lightwave Technology, 2021, , 1-1.	2.7	8
81	Adaptability-Enabled Record-High and Robust Capacity-Versus-Reach Performance of Real-Time Dual-Band Optical OFDM Signals Over Various OM1/OM2 MMF Systems [Invited]. Journal of Optical Communications and Networking, 2013, 5, A1.	3.3	7
82	Intra-Cavity Chromatic Dispersion Impacts on 10-Gb/s Optical OFDM Transmissions Over 25-km Dual-RSOA-Based Self-Seeded PON Systems. IEEE Photonics Journal, 2015, 7, 1-12.	1.0	7
83	Colorless WRC-FPLDs Subject to Gain-Saturated RSOA Feedback for WDM-PONs. IEEE Photonics Technology Letters, 2018, 30, 43-46.	1.3	7
84	Channel estimation based on linear interpolation algorithm in DDO-OFDM system. , 2010, , .		6
85	Optical True Time Delay-Based Hybrid Beamforming for Limited-Feedback Millimeter-Wave Massive MIMO Systems. IEEE Communications Letters, 2021, 25, 2405-2409.	2.5	6
86	Real-time Digital Signal Processing for Future Optical Access Networks. , 2013, , .		6
87	Timing Jitter Analysis and Mitigation in Hybrid OFDM-DFMA PONs. IEEE Photonics Journal, 2021, 13, 1-13.	1.0	6
88	Simulation model of magneto-optic fiber Bragg gratings and its applications in Sagnac interferometers. Frontiers of Optoelectronics in China, 2010, 3, 359-363.	0.2	5
89	25.25-Gb/s Real-Time Multi-Band Optical OFDM Transmission Over 300-m MMFs With IQ Modulated Passband. IEEE Photonics Technology Letters, 2013, 25, 2123-2125.	1.3	5
90	Comparison of ICI Reduction and Fiber Nonlinearity Tolerance for DCS-OFDM and Conventional OFDM With Equal Spectrum Efficiency. IEEE Photonics Journal, 2015, 7, 1-6.	1.0	5

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91	SPM-Improved Transmission Performance of Software-Reconfigurable IMDD PONs Based on Digital Orthogonal Filtering. <i>Journal of Lightwave Technology</i> , 2017, 35, 4488-4496.	2.7	5
92	SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. <i>IEEE Photonics Journal</i> , 2020, 12, 1-13.	1.0	5
93	Optical true time delay pool based hybrid beamformer enabling centralized beamforming control in millimeter-wave C-RAN systems. <i>Science China Information Sciences</i> , 2021, 64, 1.	2.7	5
94	Experimental demonstrations of DSP-enabled flexibility, adaptability and elasticity of multi-channel >72Gb/s over 25km IMDD transmission systems. <i>Optics Express</i> , 2021, 29, 41363.	1.7	5
95	Secure Transmission via IUI Engineering for IRS-Assisted NOMA Systems. <i>IEEE Wireless Communications Letters</i> , 2022, 11, 1369-1373.	3.2	5
96	Mode-conversion enhancement of guided optical waves by magnetostatic surface waves propagating collinearly in obliquely magnetized bismuth-doped yttrium-iron-garnet film waveguide. <i>Journal of Applied Physics</i> , 2006, 100, 123104.	1.1	4
97	RSOA Intensity Modulator Frequency Chirp-Enhanced Optical OFDM PON Performance. <i>IEEE Photonics Journal</i> , 2015, 7, 1-11.	1.0	4
98	An Efficient Energy-Saving Scheme Based on Grouping of ONU for Optical Access Network Using Electronic Switch. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	1.0	4
99	Performance Tolerance of IMDD DFMA PONs to Channel Frequency Response Roll-Off. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1655-1658.	1.3	4
100	Subcarrier Grouping-Enabled Improvement in Transmission Performance of Subcarrier Index-Power Modulated Optical OFDM for IM/DD PON Systems. <i>Journal of Lightwave Technology</i> , 2018, 36, 4792-4798.	2.7	4
101	Experimental Demonstrations of Concurrent Adaptive Inter-ONU and Upstream Communications in IMDD Hybrid SSB OFDM-DFMA PONs. , 2021, , .		4
102	Cubic congruence codes used in optical two-dimensional codes to increase capacity of optical codes and analysis of its performance. , 2009, , .		3
103	First experimental demonstration of end-to-end real-time optical OFDM symbol synchronization using subtraction and Gaussian windowing in 25km SMF IMDD systems. , 2010, , .		3
104	OCDMA-based 60-GHz radio-over-fiber system for next generation wireless access networks. , 2012, , .		3
105	Constant envelope modulation enabled fiber nonlinearity mitigation for CO-OFDM transmissions. , 2013, , .		3
106	Robust real-time 15125Gb/s adaptive optical OFDM transmissions over 100m OM2 MMFs utilizing directly modulated VCSELs subject to optical injection locking. <i>Optics Express</i> , 2014, 22, 1163.	1.7	3
107	Robust and tunable 16375Gb/s dual-band optical OFDM transmissions over directly modulated VCSEL-based 200m OM2 MMFs. <i>Optics Express</i> , 2015, 23, 373.	1.7	3
108	Transmission performance of NOMA and FBMC-based IM/DD RoF-5G communications. , 2017, , .		3

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109	Energy-Efficient Scheme Based on Sub-Band Grouping and Allocating for Digital Filter Multiple Access Adopted PON. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	3
110	Secure chaotic communication with spectrum expansion/compression. , 2017, , .		3
111	Multi-Twin-SSB Modulation with Direct Detection Based on Kramersâ€™Kronig Scheme for Long-Reach PON Downstream. Applied Sciences (Switzerland), 2019, 9, 748.	1.3	3
112	A Clock-Gating-Based Energy-Efficient Scheme for ONUs in Real-Time IMDD OFDM-PONs. Journal of Lightwave Technology, 2020, 38, 3573-3583.	2.7	3
113	Experimental Demonstrations of Matching Filter-Free Digital Filter Multiplexed SSB OFDM IMDD Transmission Systems. IEEE Photonics Journal, 2021, 13, 1-12.	1.0	3
114	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.	2.7	3
115	Rectangular Orthogonal Digital Filter Banks Based on Extended Gaussian Functions. Journal of Lightwave Technology, 2022, 40, 3709-3722.	2.7	3
116	Construction of Frequency-Hopping/Time-Spreading Two-Dimensional Optical Codes Using Quadratic and Cubic Congruence Code. IEICE Transactions on Communications, 2011, E94-B, 1883-1891.	0.4	2
117	FWM Dynamics Under Dual-Pump Thermal Behavior in Silicon Microring Resonator. IEEE Photonics Journal, 2015, 7, 1-7.	1.0	2
118	Software reconfigurable PONs utilizing digital filter multiple access. , 2015, , .		2
119	Physical-enhanced secure communication based on wavelength division multiplexing chaos synchronization of multimode semiconductor lasers. , 2016, , .		2
120	Secure chaos communication with semiconductor lasers subject to sinusoidal phase-modulated optical feedback. , 2017, , .		2
121	High order remodulation scheme based on R-QDSOA at colorless ONU. , 2017, , .		2
122	High-extinction-ratio periodic pulse signal generation based on MZ modulator. , 2017, , .		2
123	Sparse volterra model based on single side-band optical NPAM-4 direct-detection system. , 2017, , .		2
124	Dynamic Polling Sequence Arrangement for Low-Latency Wireless LAN. , 2018, , .		2
125	Subcarrier Index-Power Modulated-Optical OFDM With Dual Superposition Multiplexing for Directly Modulated DFB-Based IMDD PON Systems. IEEE Photonics Journal, 2018, 10, 1-13.	1.0	2
126	Analytical Solution of Stage-Dependent Bit Resolution of Full Parallel Variable Point FFTs for Real-Time DSP Implementation. Journal of Lightwave Technology, 2018, 36, 5177-5187.	2.7	2

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127	Step-Pulse Modulation of Gain-Switched Semiconductor Pulsed Laser. Applied Sciences (Switzerland), 2019, 9, 602.	1.3	2
128	Low Complexity Carrier Frequency Offset Estimation Scheme Based on Zoom-FFT for M-QAM. , 2019, , .		2
129	Optical Phase Conjugation Conversion through a Nonlinear Bidirectional Semiconductor Optical Amplifier Configuration. Photonics, 2022, 9, 164.	0.9	2
130	Transmission Performance and Noise Suppression in a Two-mode Fiber (TMF) Channel. , 2021, , .		2
131	Optical Dispersion Compensation through a Nonlinear-optical Loop Mirror (NOLM)-based Optical Reservoir. , 2022, , .		2
132	Mode-Coupling Induced Crosstalk Optimization in a Graded-Index Six-Mode Fiber. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	2
133	Ground effects on magneto-optic Bragg cells. Science Bulletin, 2008, 53, 2753-2757.	4.3	1
134	Magnetic tunability of fiber optical parametric oscillators with optical clock extraction. Frontiers of Optoelectronics in China, 2011, 4, 325-329.	0.2	1
135	Simplified adaptively modulated optical OFDM modems using subcarrier modulation with added input/output reconfigurability. Frontiers of Optoelectronics, 2012, 5, 187-194.	1.9	1
136	Reduced-Guard-Interval OFDM Using Digital Sub-Band-Demultiplexing. IEEE Photonics Technology Letters, 2013, 25, 2174-2177.	1.3	1
137	Stage-dependent minimum bit resolution maps of full-parallel pipelined FFT/IFFT architectures incorporated in real-time optical orthogonal frequency division multiplexing transceivers. Journal of Engineering, 2014, 2014, 469-476.	0.6	1
138	Cost-effective DAC/ADC-induced impacts on DSP-enabled flexible ROADMs free from O-E-O conversion and optical filter. , 2016, , .		1
139	Analog-to-digital converter phase insensitive dispersion search method with large search step size for low computational cost. IET Communications, 2016, 10, 131-138.	1.5	1
140	Stabilized-phase multiplexed method for antenna array system. , 2017, , .		1
141	Triangular waveform generation based on polarization modulated optoelectronic oscillator. , 2017, , .		1
142	All-optical multilevel regeneration in nonlinear optical loop mirror. , 2017, , .		1
143	High speed bidirectional chaotic communication based on bidirectionally coupled semiconductor lasers. , 2017, , .		1
144	A Review of DSP-Based Enabling Technologies for Cloud Access Networks. Future Internet, 2018, 10, 109.	2.4	1

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145	Mitigation of SSBI based on Kramersâ€™Kronig receiver in SSB-OFDM-RoF system. , 2018, , .		1
146	Density-Ratio Peak Based Semi-Supervised Algorithm for Access Network User Behavior Analysis. IEEE Access, 2019, 7, 62904-62910.	2.6	1
147	High-Resolution Chaos Lidar Using Self-Phase-Modulated Feedback External-Cavity Semiconductor Laser-based Chaos Source. , 2021, , .		1
148	First Experimental Demonstration of Real-Time End-to-End Multi-Band 25.25Gb/s Optical OFDM Transmission over 300m OM2 MMFs Employing 4GS/s DACs/ADCs. , 2013, , .		1
149	Linearization of Optical IMDD Transmission Systems Using Accelerated Iterative Algorithms. , 2020, , .		1
150	Experimental Demonstration of Hybrid OFDM-Digital Filter Multiple Access PONs for 5G and Beyond Networks. , 2020, , .		1
151	Security-enhanced Key Distribution Based on Chaos Synchronization Between Dual Path-injected Semiconductor Lasers. , 2021, , .		1
152	The influence of ADC in fiber optic communication systems with maximum-likelihood sequence estimation. , 2009, , .		0
153	Wavelength reused bidirectional adaptively modulated optical OFDM transmission in colourless WDM-PONs. , 2010, , .		0
154	Improved power budgets of end-to-end real-time optical OFDM PON systems using wavelength-offset optical filtering. , 2012, , .		0
155	Multiple-frequency basestation RoF system based on polarization multiplexed FWM in SOA. Optoelectronics Letters, 2012, 8, 464-467.	0.4	0
156	Experimental verification platform for FC-over-WDM-based avionic network. , 2013, , .		0
157	Multiple basestation RoF system enabled by multiple wavelength conversion based on polarization multiplexed FWM in SOA. , 2013, , .		0
158	13.625ÂGbps real-time dual-band adaptive optical orthogonal frequency division multiplexing transmissions over 25Âkm standard single-mode fibre intensity modulation and direct detection systems utilising strongly saturated reflective semiconductor optical amplifier intensity modulators. IET Optoelectronics, 2014, 8, 175-180.	1.8	0
159	Fiber nonlinearity mitigation using phase-conjugated OFDM subcarriers. , 2014, , .		0
160	Design of a hybrid switching architecture for avionic WDM platforms. Optoelectronics Letters, 2014, 10, 63-66.	0.4	0
161	Optical coherent burst-mode receivers with delayed channel equalisation feedback from parallel and pipelined design. IET Communications, 2015, 9, 975-981.	1.5	0
162	Capacity improvement by adaptive bit-loading and Volterra filtering in a DML-based IM/DD system. , 2016, , .		0

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163	An energy-efficient PON based on digital filter multiple access technology. , 2016, , .		0
164	Concealment of time delay signature of chaotic semiconductor laser ring. , 2016, , .		0
165	Capacity limits of dispersive fiber links with direct-modulation/direct-detection using adaptively modulated optical OFDM. , 2016, , .		0
166	Enhanced performance of phase-conjugated OFDM subcarriers using digital coherent superposition. Photonic Network Communications, 2016, 31, 321-326.	1.4	0
167	Signal Degradation and Excess Insertion Loss of Optical Mach-Zehnder Modulators in the Presence of Electronic Dispersion Compensation. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	0
168	A cost-effective and concurrent all-optical VPN in digital filter multiple access PON systems. , 2017, , .		0
169	Random number generation using a spectrum-expanded chaotic signal at 300 Gb/s. , 2017, , .		0
170	Multilevel Amplitude Regeneration of PAM-4 Signals using a Nonlinear Optical Loop Mirror. , 2017, , .		0
171	Hilbert superposition based on direct-detection for single side-band optical NPAM-4 signal. , 2017, , .		0
172	Chaos synchronization in semiconductor lasers subject to phase-conjugate feedback. , 2017, , .		0
173	Digital dispersion pre-compensation based on intensity modulator and phase modulator for PAM4 in short-reach fibre communications. IET Optoelectronics, 2017, 11, 163-168.	1.8	0
174	Secure Key Distribution based on Chaos Synchronization and Alternating Step Algorithm. , 2018, , .		0
175	Security-enhanced Chaos Communication With non-standard Optical Time Lens. , 2018, , .		0
176	Functional-Link Neural Network Based Nonlinear Equalizer. , 2019, , .		0
177	Time Delay Signature Suppression of Chaos in a Semiconductor Laser Subject to Feedback from Parallel-Coupled Triple Ring Resonator. , 2019, , .		0
178	Cluster Synchronization of Semiconductor Lasers Network with Heterogeneous Coupling Delays. , 2019, , .		0
179	Flat Power Response in a Polarization-Maintaining Coupler Based Nonlinear-Optical Loop Mirror (PMC-NOLM). , 2020, , .		0
180	DFT-Spread Spectrally Overlapped Hybrid OFDM-Digital Filter Multiple Access IMDD PONs. Sensors, 2021, 21, 5903.	2.1	0

#	ARTICLE	IF	CITATIONS
181	Prediction Utilizing Photonic Reservoir Computing Based on Complex Chaotic Mask. , 2021, , .		0
182	Adaptability-Enabled Significant Improvement in Capacity versus Reach Performance of Real-Time Dual-Band Optical OFDM Transmissions over OM1/OM2 MMF Systems. , 2013, , .		0
183	Artificial Neural Network-Based QoT Estimation for Lightpath Provisioning in Optical Networks. IEICE Transactions on Communications, 2019, E102.B, 2104-2112.	0.4	0
184	DSP-based Reduction of the Impact of White ADC Timing Jitter on Hybrid OFDM-DFMA PONs. , 2021, , .		0
185	High Utilization-Efficiency Multicast in Optical Benes Switching Structure. , 2021, , .		0
186	150-Gb/s PDM-SSB Signal Transmission Using Optical Frequency Comb with Joint Equalization. , 2021, , .		0