

Roger Giddings

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

1,643
citations

24
h-index

33
g-index

186
ext. papers

2,111
ext. citations

2.8
avg. IF

5.01
L-index

#	Paper	IF	Citations
139	Rectangular Orthogonal Digital Filter Banks Based on Extended Gaussian Functions. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	
138	Security Enhancement in Coherent OFDM Optical Transmission with Chaotic Three-Dimensional Constellation Scrambling. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	2
137	Optical Phase Conjugation Conversion through a Nonlinear Bidirectional Semiconductor Optical Amplifier Configuration. <i>Photonics</i> , 2022 , 9, 164	2.2	0
136	Multi-constraint Gerchberg-Saxton iteration algorithms for linearizing IM/DD transmission systems.. <i>Optics Express</i> , 2022 , 30, 10019-10031	3.3	4
135	Secure Transmission via IUI Engineering for IRS-Assisted NOMA Systems. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	0
134	Timing Jitter Analysis and Mitigation in Hybrid OFDM-DFMA PONs. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-13.8	3.8	1
133	Constellation Shaping Chaotic Encryption Scheme With Controllable Statistical Distribution for OFDM-PON. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	12
132	Experimental Demonstrations of Concurrent Adaptive Inter-ONU and Upstream Communications in IMDD Hybrid SSB OFDM-DFMA PONs 2021 ,		2
131	Semiconductor Laser-Based Multi-Channel Wideband Chaos Generation Using Optoelectronic Hybrid Feedback and Parallel Filtering. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
130	Experimental Demonstrations of Matching Filter-Free Digital Filter Multiplexed SSB OFDM IMDD Transmission Systems. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-12	1.8	2
129	Data-Aided Iterative Algorithms for Linearizing IM/DD Optical Transmission Systems. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2864-2872	4	6
128	Concurrent Inter-ONU Communications for Next Generation Mobile Fronthauls based on IMDD Hybrid SSB OFDM-DFMA PONs. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	2
127	Optical True Time Delay-Based Hybrid Beamforming for Limited-Feedback Millimeter-Wave Massive MIMO Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 2405-2409	3.8	2
126	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	3.4	1
125	Optical true time delay pool-based beamforming and limited feedback for reconfigurable intelligent surface-empowered cloud radio access networks. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	1
124	Security Improvement for OFDM-PON via DNA Extension Code and Chaotic Systems. <i>IEEE Access</i> , 2020 , 8, 75119-75126	3.5	13
123	. <i>IEEE Photonics Technology Letters</i> , 2020 , 1-1	2.2	6

122	A Clock-Gating-Based Energy-Efficient Scheme for ONUs in Real-Time IMDD OFDM-PONs. <i>Journal of Lightwave Technology</i> , 2020 , 38, 3573-3583	4	3
121	Cascaded Nonlinear-Optical Loop Mirror-Based All-Optical PAM Regenerator. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 206	2.6	5
120	Secure Optical Communication Based on Cluster Chaos Synchronization in Semiconductor Lasers Network. <i>IEEE Access</i> , 2020 , 8, 11872-11879	3.5	12
119	Low Complexity Two-Stage FOE Using Modified Zoom-FFT for Coherent Optical M-QAM Systems. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 263-266	2.2	3
118	Hybrid SSB OFDM-Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2095-2105	4	13
117	Complexity Reduction With a Simplified MIMO Volterra Filter for PDM-Twin-SSB PAM-4 Transmission. <i>Journal of Lightwave Technology</i> , 2020 , 38, 769-776	4	10
116	SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-13	1.8	2
115	. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-11	1.8	1
114	Wideband Time Delay Signature-Suppressed Chaos Generation Using Self-Phase-Modulated Feedback Semiconductor Laser Cascaded With Dispersive Component. <i>Journal of Lightwave Technology</i> , 2019 , 37, 5132-5139	4	23
113	Step-Pulse Modulation of Gain-Switched Semiconductor Pulsed Laser. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 602	2.6	1
112	Density-Ratio Peak Based Semi-Supervised Algorithm for Access Network User Behavior Analysis. <i>IEEE Access</i> , 2019 , 7, 62904-62910	3.5	1
111	Hybrid DFT-Spread OFDM-Digital Filter Multiple Access PONs for Converged 5G Networks. <i>Journal of Optical Communications and Networking</i> , 2019 , 11, 347	4.1	4
110	Experimental Demonstration of a Real-Time Digital Filter Multiple Access PON With Low Complexity DSP-Based Interference Cancellation. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4315-4329	4	12
109	Chaotic Multilevel Separated Encryption for Security Enhancement of OFDM-PON. <i>IEEE Access</i> , 2019 , 7, 124452-124460	3.5	17
108	Real-time experimental demonstration of DSP-enabled soft-ROADMs with multi-level flexible add/drop functions for cloud access networks. <i>Optics Express</i> , 2019 , 27, 16-33	3.3	6
107	Artificial Neural Network-Based QoT Estimation for Lightpath Provisioning in Optical Networks. <i>IEICE Transactions on Communications</i> , 2019 , E102.B, 2104-2112	0.5	
106	Multi-Twin-SSB Modulation with Direct Detection Based on Kramers-Kronig Scheme for Long-Reach PON Downstream. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 748	2.6	2
105	Physical-Enhanced Secure Strategy for OFDMA-PON Using Chaos and Deoxyribonucleic Acid Encoding. <i>Journal of Lightwave Technology</i> , 2018 , 36, 1706-1712	4	70

104	. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 43-46	2.2	4
103	Phase Masking and Time-Frequency Chaotic Encryption for DFMA-PON. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	13
102	Optical True Time Delay Pools Based Centralized Beamforming Control for Wireless Base Stations Phased-Array Antennas. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3693-3699	4	13
101	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	4	1
100	Security enhancement for OFDM-PON using Brownian motion and chaos in cell. <i>Optics Express</i> , 2018 , 26, 22857-22865	3.3	37
99	A Review of DSP-Based Enabling Technologies for Cloud Access Networks. <i>Future Internet</i> , 2018 , 10, 109	3.3	1
98	Dynamic Polling Sequence Arrangement for Low-Latency Wireless LAN 2018 ,		1
97	Developed Density Peak Clustering With Support Vector Data Description for Access Network Intrusion Detection. <i>IEEE Access</i> , 2018 , 6, 46356-46362	3.5	11
96	Hybrid OFDM-Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5640-5649	4	8
95	Subcarrier Index-Power Modulated-Optical OFDM With Dual Superposition Multiplexing for Directly Modulated DFB-Based IMDD PON Systems. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-13	1.8	0
94	Analytical Solution of Stage-Dependent Bit Resolution of Full Parallel Variable Point FFTs for Real-Time DSP Implementation. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5177-5187	4	2
93	Non-optical Carrier SSB-OFDM PONs With the Improved Receiver Sensitivity and Potential Transmission Nonlinearity Tolerance. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	5
92	Experimental Demonstration of Upstream Transmission in Digital Filter Multiple Access PONs With Real-Time Reconfigurable Optical Network Units. <i>Journal of Optical Communications and Networking</i> , 2017 , 9, 45	4.1	14
91	Experimental Demonstration of Security-Enhanced OFDMA-PON Using Chaotic Constellation Transformation and Pilot-Aided Secure Key Agreement. <i>Journal of Lightwave Technology</i> , 2017 , 35, 1524-1530	4.1530	67
90	Brownian Motion Encryption for Physical-Layer Security Improvement in CO-OFDM-PON. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1023-1026	2.2	42
89	Hybrid Chaotic Confusion and Diffusion for Physical Layer Security in OFDM-PON. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	22
88	Multiple Channel Interference Cancellation of Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , 2017 , 35, 34-44	4	17
87	Multilevel power transfer function characterization of nonlinear optical loop mirror 2017 ,		6

86	Secure chaotic communication with spectrum expansion/compression 2017 ,		1
85	Digital dispersion pre-compensation based on intensity modulator and phase modulator for PAM-4 in short-reach fibre communications. <i>IET Optoelectronics</i> , 2017 , 11, 163-168	1.5	
84	SPM-Improved Transmission Performance of Software-Reconfigurable IMDD PONs Based on Digital Orthogonal Filtering. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4488-4496	4	3
83	Performance Tolerance of IMDD DFMA PONs to Channel Frequency Response Roll-Off. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1655-1658	2.2	3
82	Energy-Efficient and Survivable Optical Access Network Based on Multilayer-Ring Structure. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-19	1.8	5
81	Signal Degradation and Excess Insertion Loss of Optical Mach-Zehnder Modulators in the Presence of Electronic Dispersion Compensation. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-9	1.8	
80	High order remodulation scheme based on R-QDSOA at colorless ONU 2017 ,		2
79	Physically Secured Optical OFDM-PON by Employing Chaotic Pseudorandom RF Subcarriers. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	23
78	High-extinction-ratio periodic pulse signal generation based on MZ modulator 2017 ,		2
77	Stabilized-phase multiplexed method for antenna array system 2017 ,		1
76	All-optical multilevel regeneration in nonlinear optical loop mirror 2017 ,		1
75	Energy-Efficient Scheme Based on Sub-Band Grouping and Allocating for Digital Filter Multiple Access Adopted PON. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-9	1.8	1
74	DSP-enabled reconfigurable and transparent spectral converters for converging optical and mobile fronthaul/backhaul networks. <i>Optics Express</i> , 2017 , 25, 13836-13856	3.3	7
73	Experimental demonstrations of 30Gb/s/digital orthogonal filtering-multiplexed multiple channel transmissions over IMDD PON systems utilizing 10G-class optical devices. <i>Optics Express</i> , 2017 , 25, 24251-24261	3.3	12
72	Experimental demonstration of a DSP-based cross-channel interference cancellation technique for application in digital filter multiple access PONs. <i>Optics Express</i> , 2017 , 25, 3850-3862	3.3	12
71	Enhanced performance of phase-conjugated OFDM subcarriers using digital coherent superposition. <i>Photonic Network Communications</i> , 2016 , 31, 321-326	1.7	
70	Secure Key Distribution Based on Dynamic Chaos Synchronization of Cascaded Semiconductor Laser Systems. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	14
69	Physical-enhanced secure communication based on wavelength division multiplexing chaos synchronization of multimode semiconductor lasers 2016 ,		2

68	Hybrid time-frequency domain chaotic interleaving for physical-layer security enhancement in OFDM-PON systems 2016 ,		6
67	Subcarrier Index-Power Modulated Optical OFDM and Its Performance in IMDD PON Systems. <i>Journal of Lightwave Technology</i> , 2016 , 34, 2228-2234	4	15
66	Energy-efficient orthogonal frequency division multiplexing-based passive optical network based on adaptive sleep-mode control and dynamic bandwidth allocation. <i>Optical Engineering</i> , 2016 , 55, 026108 ¹⁻¹	1.1	7
65	Joint PAPR Reduction and Physical Layer Security Enhancement in OFDMA-PON. <i>IEEE Photonics Technology Letters</i> , 2016 , 1-1	2.2	31
64	Analogue-to-digital converter phase insensitive dispersion search method with large search step size for low computational cost. <i>IET Communications</i> , 2016 , 10, 131-138	1.3	1
63	Phase Noise Effects on Phase-Modulated Coherent Optical OFDM. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-8	1.8	10
62	Stage-Dependent DSP Operation Range Clipping-Induced Bit Resolution Reductions of Full Parallel 64-Point FFTs Incorporated in FPGA-Based Optical OFDM Receivers. <i>Journal of Lightwave Technology</i> , 2016 , 34, 3752-3760	4	8
61	Physically enhanced secure wavelength division multiplexing chaos communication using multimode semiconductor lasers. <i>Nonlinear Dynamics</i> , 2016 , 86, 1937-1949	5	22
60	Digital Filter Multiple Access PONs With DSP-Enabled Software Reconfigurability. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, 215	4.1	35
59	Robust and tunable 16.375Gb/s dual-band optical OFDM transmissions over directly modulated VCSEL-based 200m OM2 MMFs. <i>Optics Express</i> , 2015 , 23, 373-83	3.3	3
58	Hybrid bidirectional radio-over-fiber-based orthogonal frequency division multiple access-passive optical network supporting 60 / 120 GHz using offset quadrature phase shift keying. <i>Optical Engineering</i> , 2015 , 54, 096108	1.1	11
57	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	1.8	4
56	DSP-Enabled Flexible ROADMs Without Optical Filters and O-E-O Conversions. <i>Journal of Lightwave Technology</i> , 2015 , 33, 4124-4131	4	16
55	Comparison of ICI Reduction and Fiber Nonlinearity Tolerance for DCS-OFDM and Conventional OFDM With Equal Spectrum Efficiency. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-6	1.8	5
54	Optical coherent burst-mode receivers with delayed channel equalisation feedback from parallel and pipelined design. <i>IET Communications</i> , 2015 , 9, 975-981	1.3	
53	FWM Dynamics Under Dual-Pump Thermal Behavior in Silicon Microring Resonator. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-7	1.8	1
52	RSOA Intensity Modulator Frequency Chirp-Enhanced Optical OFDM PON Performance. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-11	1.8	1
51	Intra-Cavity Chromatic Dispersion Impacts on 10-Gb/s Optical OFDM Transmissions Over 25-km Dual-RSOA-Based Self-Seeded PON Systems. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-12	1.8	3

50	Real-time Digital Signal Processing for Optical OFDM-Based Future Optical Access Networks. <i>Journal of Lightwave Technology</i> , 2014 , 32, 553-570	4	31
49	Digital Orthogonal Filter-Enabled Optical OFDM Channel Multiplexing for Software-Reconfigurable Elastic PONs. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1200-1206	4	24
48	Experimental Demonstration of Polarization-Dependent Loss Monitoring and Compensation in Stokes Space for Coherent Optical PDM-OFDM. <i>Journal of Lightwave Technology</i> , 2014 , 32, 4528-4533	4	7
47	Stage-dependent minimum bit resolution maps of full-parallel pipelined FFT/IFFT architectures incorporated in real-time optical orthogonal frequency division multiplexing transceivers. <i>Journal of Engineering</i> , 2014 , 2014, 469-476	0.7	
46	13.625 Gb/s real-time dual-band adaptive optical orthogonal frequency division multiplexing transmissions over 25 km standard single-mode fibre intensity modulation and direct detection systems utilising strongly saturated reflective semiconductor optical amplifier intensity modulators. <i>IET Optoelectronics</i> , 2014 , 8, 175-180	1.5	
45	Robust real-time 15.125 Gb/s adaptive optical OFDM transmissions over 100 m OM2 MMFs utilizing directly modulated VCSELs subject to optical injection locking. <i>Optics Express</i> , 2014 , 22, 1163-71	3.3	2
44	Record-high and robust 17.125 Gb/s gross-rate over 25 km SSMF transmissions of real-time dual-band optical OFDM signals directly modulated by 1 GHz RSOAs. <i>Optics Express</i> , 2014 , 22, 6339-48	3.3	24
43	Self-seeding-based 10Gb/s over 25km optical OFDM transmissions utilizing face-to-face dual-RSOAs at gain saturation. <i>Optics Express</i> , 2014 , 22, 11954-65	3.3	11
42	Real-time experimental demonstrations of software reconfigurable optical OFDM transceivers utilizing DSP-based digital orthogonal filters for SDN PONs. <i>Optics Express</i> , 2014 , 22, 19674-85	3.3	27
41	Design of a hybrid switching architecture for avionic WDM platforms. <i>Optoelectronics Letters</i> , 2014 , 10, 63-66	0.7	
40	Upstream Power Budgets of IMDD Optical OFDMA PONs Incorporating RSOA Intensity Modulator-Based Colorless ONUs. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1914-1920	4	12
39	Modified Constant Modulus Algorithm With Polarization Demultiplexing in Stokes Space in Optical Coherent Receiver. <i>Journal of Lightwave Technology</i> , 2013 , 31, 3203-3209	4	15
38	Reduced-Guard-Interval OFDM Using Digital Sub-Band-Demultiplexing. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2174-2177	2.2	1
37	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]. <i>Journal of Optical Communications and Networking</i> , 2013 , 5, A1	4.1	5
36	Experimental demonstrations of record high REAM intensity modulator-enabled 19.25Gb/s real-time end-to-end dual-band optical OFDM colorless transmissions over 25km SSMF IMDD systems. <i>Optics Express</i> , 2013 , 21, 9167-79	3.3	6
35	Constant envelope modulation enabled fiber nonlinearity mitigation for CO-OFDM transmissions 2013 ,		2
34	25.25-Gb/s Real-Time Multi-Band Optical OFDM Transmission Over 300-m MMFs With IQ Modulated Passband. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2123-2125	2.2	2
33	Directly Modulated VCSEL-Based Real-Time 11.25-Gb/s Optical OFDM Transmission Over 2000-m Legacy MMFs. <i>IEEE Photonics Journal</i> , 2012 , 4, 143-154	1.8	13

32	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. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 2206-2209	2.2	9
31	Characterization of Passive Optical Components by DSP-Based Optical Channel Estimation. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 443-445	2.2	15
30	Multiple-frequency basestation RoF system based on polarization multiplexed FWM in SOA. <i>Optoelectronics Letters</i> , 2012 , 8, 464-467	0.7	
29	REAM intensity modulator-enabled 10Gb/s colorless upstream transmission of real-time optical OFDM signals in a single-fiber-based bidirectional PON architecture. <i>Optics Express</i> , 2012 , 20, 21089-1003-3	3.3	14
28	Experimental demonstration of record high 19.125 Gb/s real-time end-to-end dual-band optical OFDM transmission over 25 km SMF in a simple EML-based IMDD system. <i>Optics Express</i> , 2012 , 20, 20666-79	3.3	31
27	Simplified adaptively modulated optical OFDM modems using subcarrier modulation with added input/output reconfigurability. <i>Frontiers of Optoelectronics</i> , 2012 , 5, 187-194	2.8	1
26	OCDMA-based 60-GHz radio-over-fiber system for next generation wireless access networks 2012 ,		2
25	Performance Improvement of Optical OFDMA-PON Using Data Clipping and Additional Phases. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 255-257	2.2	12
24	Experimental Demonstration of Real-Time Optical OFDM Transmission at 11.25 Gb/s Over 500-m MMFs Employing Directly Modulated DFB Lasers. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 51-53	2.2	14
23	Experimental demonstration and optimisation of a synchronous clock recovery technique for real-time end-to-end optical OFDM transmission at 11.25Gb/s over 25km SSMF. <i>Optics Express</i> , 2011 , 19, 2831-45	3.3	31
22	Real-time experimental demonstration of low-cost VCSEL intensity-modulated 11.25 Gb/s optical OFDM signal transmission over 25 km PON systems. <i>Optics Express</i> , 2011 , 19, 2979-88	3.3	31
21	First real-time experimental demonstrations of 11.25Gb/s optical OFDMA PONs with adaptive dynamic bandwidth allocation. <i>Optics Express</i> , 2011 , 19, 20557-70	3.3	27
20	Construction of Frequency-Hopping/Time-Spreading Two-Dimensional Optical Codes Using Quadratic and Cubic Congruence Code. <i>IEICE Transactions on Communications</i> , 2011 , E94-B, 1883-1891	0.5	2
19	Experimental Demonstrations and Extensive Comparisons of End-to-End Real-Time Optical OFDM Transceivers With Adaptive Bit and/or Power Loading. <i>IEEE Photonics Journal</i> , 2011 , 3, 500-511	1.8	47
18	Magnetic tunability of fiber optical parametric oscillators with optical clock extraction. <i>Frontiers of Optoelectronics in China</i> , 2011 , 4, 325-329		1
17	First experimental demonstration of end-to-end real-time optical OFDM symbol synchronization using subtraction and Gaussian windowing in 25km SMF IMDD systems 2010 ,		1
16	Experimental Demonstration of Real-Time Optical OFDM Transmission at 7.5 Gb/s Over 25-km SSMF Using a 1-GHz RSOA. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 745-747	2.2	42
15	Experimental demonstration of a record high 11.25Gb/s real-time optical OFDM transceiver supporting 25km SMF end-to-end transmission in simple IMDD systems. <i>Optics Express</i> , 2010 , 18, 5541-553-3	3.3	113

14	Wavelength reused bidirectional transmission of adaptively modulated optical OFDM signals in WDM-PONs incorporating SOA and RSOA intensity modulators. <i>Optics Express</i> , 2010 , 18, 9791-808	3.3	48
13	Significant improvements in optical power budgets of real-time optical OFDM PON systems. <i>Optics Express</i> , 2010 , 18, 20732-45	3.3	30
12	Real-time experimental demonstration of optical OFDM symbol synchronization in directly modulated DFB laser-based 25km SMF IMDD systems. <i>Optics Express</i> , 2010 , 18, 21100-10	3.3	24
11	Negative Power Penalties of Optical OFDM Signal Transmissions in Directly Modulated DFB Laser-Based IMDD Systems Incorporating Negative Dispersion Fibers. <i>IEEE Photonics Journal</i> , 2010 , 2, 532-542	1.8	23
10	Simulation model of magneto-optic fiber Bragg gratings and its applications in Sagnac interferometers. <i>Frontiers of Optoelectronics in China</i> , 2010 , 3, 359-363		5
9	Cubic congruence codes used in optical two-dimensional codes to increase capacity of optical codes and analysis of its performance 2009 ,		2
8	Semiconductor Optical Amplifier-Enabled Intensity Modulation of Adaptively Modulated Optical OFDM Signals in SMF-Based IMDD Systems. <i>Journal of Lightwave Technology</i> , 2009 , 27, 3678-3688	4	28
7	Colourless adaptively modulated optical OFDM transmitters using SOAs as intensity modulators. <i>Optics Express</i> , 2009 , 17, 9012-27	3.3	17
6	Real-time transmission of 3 Gb/s 16-QAM encoded optical OFDM signals over 75 km SMFs with negative power penalties. <i>Optics Express</i> , 2009 , 17, 14574-85	3.3	25
5	Experimental demonstration of real-time 3Gb/s optical OFDM transceivers. <i>Optics Express</i> , 2009 , 17, 16654-65	3.3	20
4	First experimental demonstration of 6Gb/s real-time optical OFDM transceivers incorporating channel estimation and variable power loading. <i>Optics Express</i> , 2009 , 17, 19727-38	3.3	24
3	Real-time demonstration of 128-QAM-encoded optical OFDM transmission with a 5.25bit/s/Hz spectral efficiency in simple IMDD systems utilizing directly modulated DFB lasers. <i>Optics Express</i> , 2009 , 17, 20484-93	3.3	38
2	Ground effects on magneto-optic Bragg cells. <i>Science Bulletin</i> , 2008 , 53, 2753-2757	10.6	1
1	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	2.5	3