

# Roger Giddings

## List of Publications by Citations

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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	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> , <b>2010</b> , 18, 5541-5553	3.3	113
138	Physical-Enhanced Secure Strategy for OFDMA-PON Using Chaos and Deoxyribonucleic Acid Encoding. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1706-1712	4	70
137	Experimental Demonstration of Security-Enhanced OFDMA-PON Using Chaotic Constellation Transformation and Pilot-Aided Secure Key Agreement. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 1524-1530	4.1530	67
136	Wavelength reused bidirectional transmission of adaptively modulated optical OFDM signals in WDM-PONs incorporating SOA and RSOA intensity modulators. <i>Optics Express</i> , <b>2010</b> , 18, 9791-808	3.3	48
135	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> , <b>2011</b> , 3, 500-511	1.8	47
134	Brownian Motion Encryption for Physical-Layer Security Improvement in CO-OFDM-PON. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1023-1026	2.2	42
133	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> , <b>2010</b> , 22, 745-747	2.2	42
132	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> , <b>2009</b> , 17, 20484-93	3.3	38
131	Security enhancement for OFDM-PON using Brownian motion and chaos in cell. <i>Optics Express</i> , <b>2018</b> , 26, 22857-22865	3.3	37
130	Digital Filter Multiple Access PONs With DSP-Enabled Software Reconfigurability. <i>Journal of Optical Communications and Networking</i> , <b>2015</b> , 7, 215	4.1	35
129	Joint PAPR Reduction and Physical Layer Security Enhancement in OFDMA-PON. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 1-1	2.2	31
128	Real-time Digital Signal Processing for Optical OFDM-Based Future Optical Access Networks. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 553-570	4	31
127	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> , <b>2012</b> , 20, 20666-79	3.3	31
126	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> , <b>2011</b> , 19, 2831-45	3.3	31
125	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> , <b>2011</b> , 19, 2979-88	3.3	31
124	Significant improvements in optical power budgets of real-time optical OFDM PON systems. <i>Optics Express</i> , <b>2010</b> , 18, 20732-45	3.3	30
123	Semiconductor Optical Amplifier-Enabled Intensity Modulation of Adaptively Modulated Optical OFDM Signals in SMF-Based IMDD Systems. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 3678-3688	4	28

122	Real-time experimental demonstrations of software reconfigurable optical OFDM transceivers utilizing DSP-based digital orthogonal filters for SDN PONs. <i>Optics Express</i> , <b>2014</b> , 22, 19674-85	3-3	27
121	First real-time experimental demonstrations of 11.25Gb/s optical OFDMA PONs with adaptive dynamic bandwidth allocation. <i>Optics Express</i> , <b>2011</b> , 19, 20557-70	3-3	27
120	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> , <b>2009</b> , 17, 14574-85	3-3	25
119	Digital Orthogonal Filter-Enabled Optical OFDM Channel Multiplexing for Software-Reconfigurable Elastic PONs. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 1200-1206	4	24
118	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> , <b>2014</b> , 22, 6339-48	3-3	24
117	Real-time experimental demonstration of optical OFDM symbol synchronization in directly modulated DFB laser-based 25km SMF IMDD systems. <i>Optics Express</i> , <b>2010</b> , 18, 21100-10	3-3	24
116	First experimental demonstration of 6Gb/s real-time optical OFDM transceivers incorporating channel estimation and variable power loading. <i>Optics Express</i> , <b>2009</b> , 17, 19727-38	3-3	24
115	Wideband Time Delay Signature-Suppressed Chaos Generation Using Self-Phase-Modulated Feedback Semiconductor Laser Cascaded With Dispersive Component. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5132-5139	4	23
114	Physically Secured Optical OFDM-PON by Employing Chaotic Pseudorandom RF Subcarriers. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-8	1.8	23
113	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> , <b>2010</b> , 2, 532-542	1.8	23
112	Hybrid Chaotic Confusion and Diffusion for Physical Layer Security in OFDM-PON. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-10	1.8	22
111	Physically enhanced secure wavelength division multiplexing chaos communication using multimode semiconductor lasers. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 1937-1949	5	22
110	Experimental demonstration of real-time 3Gb/s optical OFDM transceivers. <i>Optics Express</i> , <b>2009</b> , 17, 16654-65	3-3	20
109	Multiple Channel Interference Cancellation of Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 34-44	4	17
108	Chaotic Multilevel Separated Encryption for Security Enhancement of OFDM-PON. <i>IEEE Access</i> , <b>2019</b> , 7, 124452-124460	3-5	17
107	Colourless adaptively modulated optical OFDM transmitters using SOAs as intensity modulators. <i>Optics Express</i> , <b>2009</b> , 17, 9012-27	3-3	17
106	DSP-Enabled Flexible ROADMs Without Optical Filters and O-E-O Conversions. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 4124-4131	4	16
105	Subcarrier Index-Power Modulated Optical OFDM and Its Performance in IMDD PON Systems. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 2228-2234	4	15

104	Modified Constant Modulus Algorithm With Polarization Demultiplexing in Stokes Space in Optical Coherent Receiver. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 3203-3209	4	15
103	Characterization of Passive Optical Components by DSP-Based Optical Channel Estimation. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 443-445	2.2	15
102	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> , <b>2017</b> , 9, 45	4.1	14
101	Secure Key Distribution Based on Dynamic Chaos Synchronization of Cascaded Semiconductor Laser Systems. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 1-1	6.9	14
100	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> , <b>2012</b> , 20, 21089-100 <sup>3-3</sup>		14
99	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> , <b>2011</b> , 23, 51-53	2.2	14
98	Security Improvement for OFDM-PON via DNA Extension Code and Chaotic Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 75119-75126	3.5	13
97	Hybrid SSB OFDM-Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 2095-2105		13
96	Phase Masking and Time-Frequency Chaotic Encryption for DFMA-PON. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-9	1.8	13
95	Optical True Time Delay Pools Based Centralized Beamforming Control for Wireless Base Stations Phased-Array Antennas. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3693-3699	4	13
94	Directly Modulated VCSEL-Based Real-Time 11.25-Gb/s Optical OFDM Transmission Over 2000-m Legacy MMFs. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 143-154	1.8	13
93	Secure Optical Communication Based on Cluster Chaos Synchronization in Semiconductor Lasers Network. <i>IEEE Access</i> , <b>2020</b> , 8, 11872-11879	3.5	12
92	Experimental Demonstration of a Real-Time Digital Filter Multiple Access PON With Low Complexity DSP-Based Interference Cancellation. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 4315-4329 <sup>4</sup>		12
91	Upstream Power Budgets of IMDD Optical OFDMA PONs Incorporating RSOA Intensity Modulator-Based Colorless ONUs. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 1914-1920	4	12
90	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> , <b>2017</b> , 25, 24251-24261 <sup>12</sup>	3.3	12
89	Experimental demonstration of a DSP-based cross-channel interference cancellation technique for application in digital filter multiple access PONs. <i>Optics Express</i> , <b>2017</b> , 25, 3850-3862	3.3	12
88	Performance Improvement of Optical OFDMA-PON Using Data Clipping and Additional Phases. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 255-257	2.2	12
87	Constellation Shaping Chaotic Encryption Scheme With Controllable Statistical Distribution for OFDM-PON. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	12

86	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> , <b>2015</b> , 54, 096108	1.1	11
85	Self-seeding-based 10Gb/s over 25km optical OFDM transmissions utilizing face-to-face dual-RSOAs at gain saturation. <i>Optics Express</i> , <b>2014</b> , 22, 11954-65	3.3	11
84	Developed Density Peak Clustering With Support Vector Data Description for Access Network Intrusion Detection. <i>IEEE Access</i> , <b>2018</b> , 6, 46356-46362	3.5	11
83	Phase Noise Effects on Phase-Modulated Coherent Optical OFDM. <i>IEEE Photonics Journal</i> , <b>2016</b> , 8, 1-8	1.8	10
82	Complexity Reduction With a Simplified MIMO Volterra Filter for PDM-Twin-SSB PAM-4 Transmission. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 769-776	4	10
81	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> , <b>2012</b> , 24, 2206-2209	2.2	9
80	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> , <b>2016</b> , 34, 3752-3760	4	8
79	Hybrid OFDM-Digital Filter Multiple Access PONs. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 5640-5649	4	8
78	Energy-efficient orthogonal frequency division multiplexing-based passive optical network based on adaptive sleep-mode control and dynamic bandwidth allocation. <i>Optical Engineering</i> , <b>2016</b> , 55, 026108	1.1	7
77	Experimental Demonstration of Polarization-Dependent Loss Monitoring and Compensation in Stokes Space for Coherent Optical PDM-OFDM. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 4528-4533	4	7
76	DSP-enabled reconfigurable and transparent spectral converters for converging optical and mobile fronthaul/backhaul networks. <i>Optics Express</i> , <b>2017</b> , 25, 13836-13856	3.3	7
75	. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 1-1	2.2	6
74	Multilevel power transfer function characterization of nonlinear optical loop mirror <b>2017</b> ,		6
73	Hybrid time-frequency domain chaotic interleaving for physical-layer security enhancement in OFDM-PON systems <b>2016</b> ,		6
72	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> , <b>2013</b> , 21, 9167-79	3.3	6
71	Real-time experimental demonstration of DSP-enabled soft-ROADMs with multi-level flexible add/drop functions for cloud access networks. <i>Optics Express</i> , <b>2019</b> , 27, 16-33	3.3	6
70	Data-Aided Iterative Algorithms for Linearizing IM/DD Optical Transmission Systems. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 2864-2872	4	6
69	Non-optical Carrier SSB-OFDM PONs With the Improved Receiver Sensitivity and Potential Transmission Nonlinearity Tolerance. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-10	1.8	5

68	Cascaded Nonlinear-Optical Loop Mirror-Based All-Optical PAM Regenerator. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 206	2.6	5
67	Energy-Efficient and Survivable Optical Access Network Based on Multilayer-Ring Structure. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-19	1.8	5
66	Comparison of ICI Reduction and Fiber Nonlinearity Tolerance for DCS-OFDM and Conventional OFDM With Equal Spectrum Efficiency. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-6	1.8	5
65	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> , <b>2013</b> , 5, A1	4.1	5
64	Simulation model of magneto-optic fiber Bragg gratings and its applications in Sagnac interferometers. <i>Frontiers of Optoelectronics in China</i> , <b>2010</b> , 3, 359-363		5
63	An Efficient Energy-Saving Scheme Based on Grouping of ONU for Optical Access Network Using Electronic Switch. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-7	1.8	4
62	. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 43-46	2.2	4
61	Hybrid DFT-Spread OFDM-Digital Filter Multiple Access PONs for Converged 5G Networks. <i>Journal of Optical Communications and Networking</i> , <b>2019</b> , 11, 347	4.1	4
60	Multi-constraint Gerchberg-Saxton iteration algorithms for linearizing IM/DD transmission systems.. <i>Optics Express</i> , <b>2022</b> , 30, 10019-10031	3.3	4
59	Robust and tunable 16.375Gb/s dual-band optical OFDM transmissions over directly modulated VCSEL-based 200m OM2 MMFs. <i>Optics Express</i> , <b>2015</b> , 23, 373-83	3.3	3
58	A Clock-Gating-Based Energy-Efficient Scheme for ONUs in Real-Time IMDD OFDM-PONs. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3573-3583	4	3
57	Low Complexity Two-Stage FOE Using Modified Zoom-FFT for Coherent Optical M-QAM Systems. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 263-266	2.2	3
56	SPM-Improved Transmission Performance of Software-Reconfigurable IMDD PONs Based on Digital Orthogonal Filtering. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 4488-4496	4	3
55	Performance Tolerance of IMDD DFMA PONs to Channel Frequency Response Roll-Off. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1655-1658	2.2	3
54	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> , <b>2015</b> , 7, 1-12	1.8	3
53	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> , <b>2006</b> , 100, 123104	2.5	3
52	Physical-enhanced secure communication based on wavelength division multiplexing chaos synchronization of multimode semiconductor lasers <b>2016</b> ,		2
51	High order remodulation scheme based on R-QDSOA at colorless ONU <b>2017</b> ,		2



50	High-extinction-ratio periodic pulse signal generation based on MZ modulator <b>2017</b> ,		2
49	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> , <b>2014</b> , 22, 1163-71	3.3	2
48	Constant envelope modulation enabled fiber nonlinearity mitigation for CO-OFDM transmissions <b>2013</b> ,		2
47	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> , <b>2013</b> , 25, 2123-2125	2.2	2
46	Construction of Frequency-Hopping/Time-Spreading Two-Dimensional Optical Codes Using Quadratic and Cubic Congruence Code. <i>IEICE Transactions on Communications</i> , <b>2011</b> , E94-B, 1883-1891	0.5	2
45	Cubic congruence codes used in optical two-dimensional codes to increase capacity of optical codes and analysis of its performance <b>2009</b> ,		2
44	OCDMA-based 60-GHz radio-over-fiber system for next generation wireless access networks <b>2012</b> ,		2
43	Experimental Demonstrations of Concurrent Adaptive Inter-ONU and Upstream Communications in IMDD Hybrid SSB OFDM-DFMA PONs <b>2021</b> ,		2
42	SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-13	1.8	2
41	Experimental Demonstrations of Matching Filter-Free Digital Filter Multiplexed SSB OFDM IMDD Transmission Systems. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-12	1.8	2
40	Multi-Twin-SSB Modulation with Direct Detection Based on Kramers-Kronig Scheme for Long-Reach PON Downstream. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 748	2.6	2
39	Concurrent Inter-ONU Communications for Next Generation Mobile Fronthauls based on IMDD Hybrid SSB OFDM-DFMA PONs. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	2
38	Analytical Solution of Stage-Dependent Bit Resolution of Full Parallel Variable Point FFTs for Real-Time DSP Implementation. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 5177-5187	4	2
37	Optical True Time Delay-Based Hybrid Beamforming for Limited-Feedback Millimeter-Wave Massive MIMO Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 2405-2409	3.8	2
36	Security Enhancement in Coherent OFDM Optical Transmission with Chaotic Three-Dimensional Constellation Scrambling. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	2
35	Step-Pulse Modulation of Gain-Switched Semiconductor Pulsed Laser. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 602	2.6	1
34	Secure chaotic communication with spectrum expansion/compression <b>2017</b> ,		1
33	Analogue-to-digital converter phase insensitive dispersion search method with large search step size for low computational cost. <i>IET Communications</i> , <b>2016</b> , 10, 131-138	1.3	1

32	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> , <b>2018</b> , 36, 4792-4798	4	1
31	Density-Ratio Peak Based Semi-Supervised Algorithm for Access Network User Behavior Analysis. <i>IEEE Access</i> , <b>2019</b> , 7, 62904-62910	3.5	1
30	Reduced-Guard-Interval OFDM Using Digital Sub-Band-Demultiplexing. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 2174-2177	2.2	1
29	Stabilized-phase multiplexed method for antenna array system <b>2017</b> ,		1
28	All-optical multilevel regeneration in nonlinear optical loop mirror <b>2017</b> ,		1
27	Energy-Efficient Scheme Based on Sub-Band Grouping and Allocating for Digital Filter Multiple Access Adopted PON. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-9	1.8	1
26	FWM Dynamics Under Dual-Pump Thermal Behavior in Silicon Microring Resonator. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-7	1.8	1
25	RSOA Intensity Modulator Frequency Chirp-Enhanced Optical OFDM PON Performance. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-11	1.8	1
24	Simplified adaptively modulated optical OFDM modems using subcarrier modulation with added input/output reconfigurability. <i>Frontiers of Optoelectronics</i> , <b>2012</b> , 5, 187-194	2.8	1
23	Magnetic tunability of fiber optical parametric oscillators with optical clock extraction. <i>Frontiers of Optoelectronics in China</i> , <b>2011</b> , 4, 325-329		1
22	First experimental demonstration of end-to-end real-time optical OFDM symbol synchronization using subtraction and Gaussian windowing in 25km SMF IMDD systems <b>2010</b> ,		1
21	Ground effects on magneto-optic Bragg cells. <i>Science Bulletin</i> , <b>2008</b> , 53, 2753-2757	10.6	1
20	Timing Jitter Analysis and Mitigation in Hybrid OFDM-DFMA PONs. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13, 1-13	13.8	1
19	Semiconductor Laser-Based Multi-Channel Wideband Chaos Generation Using Optoelectronic Hybrid Feedback and Parallel Filtering. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 1-1	4	1
18	. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-11	1.8	1
17	A Review of DSP-Based Enabling Technologies for Cloud Access Networks. <i>Future Internet</i> , <b>2018</b> , 10, 109	3.3	1
16	Dynamic Polling Sequence Arrangement for Low-Latency Wireless LAN <b>2018</b> ,		1
15	Optical true time delay pool based hybrid beamformer enabling centralized beamforming control in millimeter-wave C-RAN systems. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	1



14	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> , <b>2021</b> , 64, 1	3.4	1
13	Subcarrier Index-Power Modulated-Optical OFDM With Dual Superposition Multiplexing for Directly Modulated DFB-Based IMDD PON Systems. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-13	1.8	0
12	Optical Phase Conjugation Conversion through a Nonlinear Bidirectional Semiconductor Optical Amplifier Configuration. <i>Photonics</i> , <b>2022</b> , 9, 164	2.2	0
11	Secure Transmission via IUI Engineering for IRS-Assisted NOMA Systems. <i>IEEE Wireless Communications Letters</i> , <b>2022</b> , 1-1	5.9	0
10	Enhanced performance of phase-conjugated OFDM subcarriers using digital coherent superposition. <i>Photonic Network Communications</i> , <b>2016</b> , 31, 321-326	1.7	
9	Digital dispersion pre-compensation based on intensity modulator and phase modulator for PAM-4 in short-reach fibre communications. <i>IET Optoelectronics</i> , <b>2017</b> , 11, 163-168	1.5	
8	Signal Degradation and Excess Insertion Loss of Optical Mach-Zehnder Modulators in the Presence of Electronic Dispersion Compensation. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-9	1.8	
7	Optical coherent burst-mode receivers with delayed channel equalisation feedback from parallel and pipelined design. <i>IET Communications</i> , <b>2015</b> , 9, 975-981	1.3	
6	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> , <b>2014</b> , 2014, 469-476	0.7	
5	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> , <b>2014</b> , 8, 175-180	1.5	
4	Design of a hybrid switching architecture for avionic WDM platforms. <i>Optoelectronics Letters</i> , <b>2014</b> , 10, 63-66	0.7	
3	Multiple-frequency basestation RoF system based on polarization multiplexed FWM in SOA. <i>Optoelectronics Letters</i> , <b>2012</b> , 8, 464-467	0.7	
2	Artificial Neural Network-Based QoT Estimation for Lightpath Provisioning in Optical Networks. <i>IEICE Transactions on Communications</i> , <b>2019</b> , E102.B, 2104-2112	0.5	
1	Rectangular Orthogonal Digital Filter Banks Based on Extended Gaussian Functions. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	