

Liam Barry

List of Publications by Year in descending order

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438
papers

4,704
citations

117625

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440
all docs

440
docs citations

440
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Intra-Data Centre Flexible PAM Transmission System Using an Integrated InP-Si ₃ N ₄ Dual Laser Module. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	0
2	High-Resolution Simulation of Externally Injected Lasers Revealing a Large Regime of Noise-Induced Chaos. Photonics, 2022, 9, 83.	2.0	2
3	Single-Lane 54-Gbit/s PAM-4/8 Signal Transmissions Using 10G-Class Directly Modulated Lasers Enabled by Low-Complexity Nonlinear Digital Equalization. IEEE Photonics Journal, 2022, 14, 1-9.	2.0	4
4	Injection Locking Properties of an Dual Laser Source for mm-Wave Communications. Journal of Lightwave Technology, 2022, 40, 6685-6692.	4.6	2
5	Role of Analogue Radio-over-Fibre Technology Beyond 5G. , 2022, , .		3
6	Wavelength & mm-Wave Flexible Converged Optical Fronthaul With a Low Noise Si-Based Integrated Dual Laser Source. Journal of Lightwave Technology, 2022, 40, 3307-3315.	4.6	2
7	InP-Si ₃ N ₄ Hybrid Integrated Optical Source for High-purity Mm-wave Communications. , 2022, , .		2
8	5G Millimeter-Wave Analog RoF System employing Optical Injection Locking and Direct Modulation of DFB Laser. , 2022, , .		1
9	DROAD: Demand-aware reconfigurable optically-switched agile data center network. Optical Switching and Networking, 2022, , 100683.	2.0	0
10	Dual-mode microresonators as straightforward access to octave-spanning dissipative Kerr solitons. APL Photonics, 2022, 7, .	5.7	21
11	Optical Heterodyne Analog Radio-Over-Fiber Link for Millimeter-Wave Wireless Systems. Journal of Lightwave Technology, 2021, 39, 465-474.	4.6	38
12	Coupled Transceiver-Fiber Nonlinearity Compensation Based on Machine Learning for Probabilistic Shaping System. Journal of Lightwave Technology, 2021, 39, 388-399.	4.6	16
13	Power optimization for phase quantization with SOAs using the gain extinction ratio. Optics Express, 2021, 29, 1545.	3.4	1
14	28 GBd PAM-8 transmission over a 100 nm range using an InP-Si ₃ N ₄ based integrated dual tunable laser module. Optics Express, 2021, 29, 16563.	3.4	13
15	Optical Frequency Comb and Active Demultiplexer-enabled 60 GHz mmW ARoF Transmission using Directly Modulated 64-QAM UF-OFDM signals. , 2021, , .		0
16	Flexible Optical and Millimeter-Wave Analog-RoF Transmission with a Silicon-based Integrated Dual Laser Module. , 2021, , .		2
17	Pilot-free Bayesian Filter for Phase Noise Correction of 64QAM CO-OFDM Superchannel. , 2021, , .		0
18	Crosstalk and Power Fading in a WDM-RoF Based MFN Using Directly Modulation 3s-DBR Laser. , 2021, , .		2

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19	High-speed PAM-4 Signal Transmissions with Directly Modulated Lasers for the Next-Generation Passive Optical Networks. , 2021, , .		2
20	54-Gbit/s PAM-8 Transmission in Next-Generation Passive Optical Networks using Directly Modulated Lasers with Machine Learning Techniques. , 2021, , .		2
21	Flexible V-band mmWave Analog-RoF Transmission of 5G and WiGig signals using an InP-SiN Integrated Laser Module. , 2021, , .		3
22	Histogram Based Clustering for Nonlinear Compensation in Long Reach Coherent Passive Optical Networks. Applied Sciences (Switzerland), 2020, 10, 152.	2.5	10
23	Comparison of Analogue and Digital Fronthaul for 5G MIMO Signals. , 2020, , .		5
24	AgileDCN: An Agile Reconfigurable Optical Data Center Network Architecture. Journal of Lightwave Technology, 2020, 38, 4922-4934.	4.6	9
25	Compensation of fiber dispersion induced-power fading in reconfigurable millimeter-wave optical networks. Optics Communications, 2020, 476, 126308.	2.1	4
26	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. Journal of Lightwave Technology, 2020, 38, 5708-5715.	4.6	15
27	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. Journal of Lightwave Technology, 2020, 38, 5386-5392.	4.6	29
28	Real-time machine learning based fiber-induced nonlinearity compensation in energy-efficient coherent optical networks. APL Photonics, 2020, 5, .	5.7	19
29	Applicability of small-signal laser and fiber models for passive optical networks operating at the 1550Ånm window. Optical Fiber Technology, 2020, 56, 102203.	2.7	0
30	Quantum Dash Passively Mode Locked Laser for Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber Fronthaul Systems. , 2020, , .		10
31	Compensation of nonlinear distortion in coherent optical OFDM systems using a MIMO deep neural network-based equalizer. Optics Letters, 2020, 45, 5820.	3.3	11
32	CO-OFDM for bandwidth-reconfigurable optical interconnects using gain-switched comb. OSA Continuum, 2020, 3, 2925.	1.8	6
33	5G New Radio Compatible Multicarrier Signals Delivery over an Optical/Millimeter-Wave Analog Radio-over-Fiber Fronthaul Link. , 2020, , .		2
34	Demonstration of 608 Gbps CO-OFDM Transmission using Gain Switched Comb. , 2020, , .		1
35	56 Gb/s over 1.3 THz frequency range and 400G DWDM PAM-4 transmission with a single quantum dash mode-locked laser source. Optics Express, 2020, 28, 22443.	3.4	3
36	Active demultiplexer enabled mmW ARoF transmission of directly modulated 64-QAM UF-OFDM signals. Optics Letters, 2020, 45, 5246.	3.3	11

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37	Experimental Demonstration of a WDM-RoF Based Mobile Fronthaul With f-OFDM Signals by Using Directly Modulated 3s-DBR Laser. Journal of Lightwave Technology, 2019, 37, 3875-3881.	4.6	29
38	Chirp Compensation of Directly Modulated 3s-DBR Laser for WDM-RoF-Based Mobile Fronthaul. IEEE Photonics Technology Letters, 2019, 31, 1171-1174.	2.5	1
39	A Blind Nonlinearity Compensator Using DBSCAN Clustering for Coherent Optical Transmission Systems. Applied Sciences (Switzerland), 2019, 9, 4398.	2.5	17
40	All-Optical Network Capacity for 5G Cellular Fronthaul. , 2019, , .		1
41	Harnessing machine learning for fiber-induced nonlinearity mitigation in long-haul coherent optical OFDM. Future Internet, 2019, 11, 2.	3.8	35
42	Identifying the Contribution of Carrier Shot Noise and Random Carrier Recombination to Excess Frequency Noise in Tunable Lasers. Photonics, 2019, 6, 4.	2.0	0
43	OFDM Baud Rate Limitations in an Optical Heterodyne Analog Fronthaul Link using Unlocked Fibre Lasers. , 2019, , .		13
44	DBSCAN-Based Clustering for Nonlinearity Induced Penalty Reduction in Wavelength Conversion Systems. IEEE Photonics Technology Letters, 2019, 31, 1709-1712.	2.5	7
45	Power efficient optical frequency comb generation using laser gain switching and dual-drive Mach-Zehnder modulator. Optics Express, 2019, 27, 24135.	3.4	19
46	Performance analysis of multi-band Analog IF over Fibre Fronthaul Link for high capacity wireless networks. , 2019, , .		0
47	Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber with Photonic Integrated Tunable Lasers. , 2019, , .		6
48	Reduction of nonlinear distortion in SOA-based wavelength conversion system by post-blind-compensation based on machine learning clustering. , 2019, , .		3
49	Investigation into the phase noise of wavelength-tunable semiconductor lasers for coherent systems. , 2019, , .		0
50	European network for high performance integrated microwave photonics. , 2019, , .		0
51	Parallelized Kalman Filters for Mitigation of the Excess Phase Noise of Fast Tunable Lasers in Coherent Optical Communication Systems. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	1
52	Blind Nonlinearity Equalization by Machine-Learning-Based Clustering for Single- and Multichannel Coherent Optical OFDM. Journal of Lightwave Technology, 2018, 36, 721-727.	4.6	55
53	Quantum Dash Passively Mode-Locked Lasers for Coherent Wavelength Conversion System. IEEE Photonics Technology Letters, 2018, 30, 947-950.	2.5	1
54	Unsupervised Support Vector Machines for Nonlinear Blind Equalization in CO-OFDM. IEEE Photonics Technology Letters, 2018, 30, 1091-1094.	2.5	6

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55	Performance Analysis of Analog IF Over Fiber Fronthaul Link With 4G and 5G Coexistence. Journal of Optical Communications and Networking, 2018, 10, 174.	4.8	44
56	Single Lane 168 Gb/s PAM-8 Short Reach Transmission Using an EAM with Receiver Skew Compensation. , 2018, , .		1
57	256/64-QAM Multicarrier Analog Radio-over-Fiber Modulation using a Linear Differential Drive Silicon Mach-Zehnder Modulator. , 2018, , .		3
58	Corrections to "Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si ₃ N ₄ /SiO ₂) Microring Resonators for Optical Coherent System" IEEE Photonics Journal, 2018, 10, 1-1.	2.0	3
59	Numerical investigation of a feed-forward linewidth reduction scheme using a mode-locked laser model of reduced complexity. Applied Optics, 2018, 57, E89.	1.8	0
60	Gain-Switched Optical Frequency Combs for Future Mobile Radio-Over-Fiber Millimeter-Wave Systems. Journal of Lightwave Technology, 2018, 36, 4602-4610.	4.6	62
61	AgileDC: A Novel Optical Data Center Network Architecture. , 2018, , .		1
62	Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si) Tj ETQq0 0 0 rgBT /Overlock 10 Tf IEEE Photonics Journal, 2018, 10, 1-8.	2.0	21
63	Doubly differential star-16-QAM for fast wavelength switching coherent optical packet transceiver. Optics Express, 2018, 26, 8201.	3.4	5
64	Tapless and topology agnostic calibration solution for silicon photonic switches. Optics Express, 2018, 26, 32662.	3.4	12
65	Narrow linewidth hybrid InP-TriPleX photonic integrated tunable laser based on silicon nitride micro-ring resonators. , 2018, , .		6
66	Doubly Differential Two-level 8PSK for Enabling Optical Packet Switching in Coherent Systems. , 2018, , .		2
67	Optical Switching in Datacenters: Architectures Based on Optical Circuit Switching. , 2018, , 23-44.		2
68	Optically switched 56 GBd PAM-4 using a hybrid InP-TriPleX integrated tunable laser based on silicon nitride micro-ring resonators. , 2018, , .		0
69	Affinity propagation clustering for blind nonlinearity compensation in coherent optical OFDM. , 2018, , .		1
70	Pump correlation requirements for four wave mixing-based phase quantization schemes. , 2018, , .		0
71	Experimental Comparison of FBMC and OFDM for Multiple Access Uplink PON. Journal of Lightwave Technology, 2017, 35, 1595-1604.	4.6	28
72	Chip-scale frequency comb generators for high-speed communications and optical metrology. , 2017, , .		0

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73	Injection-locking criteria for simultaneously locking single-mode lasers to optical frequency combs from gain-switched lasers. , 2017, , .		3
74	Investigation Into the Phase Noise of Modulated Grating Y-Branch Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	2.9	7
75	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. Journal of Lightwave Technology, 2017, 35, 2981-2987.	4.6	2
76	Software-Defined Silicon-Photonics-Based Metro Node for Spatial and Wavelength Superchannel Switching. Journal of Optical Communications and Networking, 2017, 9, 342.	4.8	3
77	Filter Bank Multicarrier (FBMC) for long-reach intensity modulated optical access networks. Optics Communications, 2017, 389, 110-117.	2.1	9
78	Converged wired and wireless services in next generation optical access networks. , 2017, , .		8
79	60 GHz 5G Radio-Over-Fiber Using UF-OFDM With Optical Heterodyning. IEEE Photonics Technology Letters, 2017, 29, 2059-2062.	2.5	27
80	Photonic Integrated Gain Switched Optical Frequency Comb for Spectrally Efficient Optical Transmission Systems. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	25
81	Effect of nonlinear gain on the phase noise of Y-branch lasers. Optical and Quantum Electronics, 2017, 49, 1.	3.3	1
82	SDN control of optical nodes in metro networks for high capacity inter-datacentre links. Optics Communications, 2017, 402, 173-180.	2.1	7
83	5G wireless and wired convergence in a passive optical network using UF-OFDM and GFDM. , 2017, , .		25
84	Modelling and dimensioning of a high-radix datacentre optical packet switch with recirculating optical buffers. Optical Switching and Networking, 2017, 23, 67-81.	2.0	1
85	Fast reconfigurable SOA-based wavelength conversion of pol-mux QPSK data employing switching tuneable pump lasers. , 2017, , .		0
86	28 GHz 5G radio over fibre using UF-OFDM with optical heterodyning. , 2017, , .		19
87	Reduction of Relative Intensity Noise of Optical Multicarrier Sources Using External Injection Based Optical Demultiplexer. , 2017, , .		0
88	Comparison of OFDMA and GFDM for Next-Generation PONs. Journal of Optical Communications and Networking, 2017, 9, 1064.	4.8	7
89	Calculation of Receiver Sensitivities in (Orthogonal) Subcarrier Multiplexing Microwave-Optical Links. Applied Sciences (Switzerland), 2017, 7, 184.	2.5	1
90	Mitigation of relative intensity noise of quantum dash mode-locked lasers for PAM4 based optical interconnects using encoding techniques. Optics Express, 2017, 25, 20.	3.4	31

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91	Investigation of intensity noise transfer during four-wave mixing in nonlinear optical media. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 389.	2.1	4
92	Software-defined control-plane for wavelength selective unicast and multicast of optical data in a silicon photonic platform. Optics Express, 2017, 25, 232.	3.4	26
93	Estimation of the Performance Improvement of Pre-Amplified PAM4 Systems When Using Multi-Section Semiconductor Optical Amplifiers. Applied Sciences (Switzerland), 2017, 7, 908.	2.5	6
94	Fast Reconfigurable SOA-Based Wavelength Conversion of Advanced Modulation Format Data. Applied Sciences (Switzerland), 2017, 7, 1033.	2.5	4
95	InP photonic integrated externally injected gain switched optical frequency comb. Optics Letters, 2017, 42, 555.	3.3	26
96	Polarization dependent loss due to four-wave mixing. , 2017, , .		0
97	Investigation of the Performance of GFDMA and OFDMA for Spectrally Efficient Broadband PONs. , 2017, , .		4
98	Dual Laser Switching for Dynamic Wavelength Operation in Amplified Optical Transmission. , 2017, , .		3
99	Frequency noise reduction performance of a feed-forward heterodyne technique: application to an actively mode-locked laser diode. Optics Letters, 2017, 42, 4000.	3.3	7
100	Optical Circuit Switching/Multicasting of Burst Mode PAM-4 using a Programmable Silicon Photonic Chip. , 2017, , .		1
101	Fast reconfigurable SOA-based all-optical wavelength conversion of QPSK data employing switching tunable pump lasers. , 2017, , .		3
102	Kalman Filter for Carrier Phase Recovery in Coherent Transmission Systems Employing Fast Tunable Lasers. , 2017, , .		2
103	Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. Optics Letters, 2016, 41, 5676.	3.3	9
104	Noise investigation of single section InAs/ InP quantum-dash lasers in active and passive mode-locking. , 2016, , .		0
105	Silicon-organic hybrid (SOH) devices and their use in comb-based communication systems. , 2016, , .		0
106	A compact and broadly tunable terahertz source based on a bimodal laser and plasmonic photomixer. , 2016, , .		0
107	Asymmetric corner frequency in the 1/f FM-noise PSD of optical frequency combs generated by quantum-dash mode-locked lasers. Applied Physics Letters, 2016, 109, 181102.	3.3	1
108	Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. Applied Optics, 2016, 55, 4441.	2.1	5

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109	Flexible wavelength de-multiplexer for elastic optical networking. Optics Letters, 2016, 41, 2241.	3.3	6
110	200-Gb/s Baudrate-Pilot-Aided QPSK/Direct Detection With Single-Section Quantum-Well Mode-Locked Laser. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	10
111	Retransmission Schemes for Lossless Transparent Optical Packet Switching in Large-Scale Datacentre Networks. , 2016, , .		1
112	Large-scale optical datacentre networks using hybrid Fibre Delay Line buffers and packet Retransmission. , 2016, , .		1
113	Amplitude and Phase Noise of Frequency Combs Generated by Single-Section InAs/InP Quantum-Dash-Based Passively and Actively Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.9	30
114	Polarization insensitive all-optical wavelength conversion of polarization multiplexed signals using co-polarized pumps. Optics Express, 2016, 24, 11749.	3.4	19
115	Impact of Laser Mode Partition Noise on Optical Heterodyning at Millimeter-Wave Frequencies. Journal of Lightwave Technology, 2016, 34, 4278-4284.	4.6	13
116	Effect of nonlinear gain on the phase noise of Y-branch lasers: Numerical study. , 2016, , .		1
117	Scalable OCS-based intra/inter data center network with optical ToR switches. , 2016, , .		6
118	Multi-terabit/s transmission using chip-scale frequency comb sources. , 2016, , .		0
119	Impact of Random Group Delay Ripple on the Cascadability of Wavelength Select Switches for Nyquist-Pulse-Shaped Signals. Journal of Lightwave Technology, 2016, 34, 4162-4168.	4.6	4
120	Frequency combs from InAs/InP quantum dash based mode-locked lasers for multi-terabit/s data transmission. , 2016, , .		0
121	100km Coherent Nyquist Ultradense Wavelength Division Multiplexed Passive Optical Network Using a Tunable Gain-Switched Comb Source. Journal of Optical Communications and Networking, 2016, 8, 112.	4.8	10
122	WDM Orthogonal Subcarrier Multiplexing. Journal of Lightwave Technology, 2016, 34, 1815-1823.	4.6	12
123	Optical packet switch with energy-efficient hybrid optical/electronic buffering for data center and HPC networks. Photonic Network Communications, 2016, 32, 89-103.	2.7	16
124	Phase Noise Reduction of an Optical Frequency Comb Using a Feed-Forward Heterodyne Detection Scheme. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	14
125	Format-independent polarization-demultiplexing technique for dual-polarization intensity modulated signals. Applied Optics, 2016, 55, 1658.	2.1	1
126	Pump linewidth requirements for processing dispersion-altered DQPSK signals using FWM. Optics Communications, 2016, 366, 179-184.	2.1	0

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127	Tbit/s Optical Interconnects Based on Low Linewidth Quantum-Dash Lasers and Coherent Detection. , 2016, , .		4
128	High-Performance Terahertz Source based on a bimodal laser diode and a plasmonic photomixer. , 2016, , .		1
129	Novel Implementation of SOA-Based All-Optical Wavelength Conversion of DQPSK Signals Using Fast Switching Tunable Lasers. , 2016, , .		0
130	Wavelength conversion of Nyquist Pol-Mux QPSK superchannel using four-wave mixing in SOA. , 2016, , .		3
131	100 Gbit/s real-time all-analogue filter bank OFDM based on a gain-switched optical comb. , 2015, , .		4
132	Phase noise tolerant wavelength conversion of Tb/s Nyquist-WDM superchannels based on 64-QAM and using FWM in SOAs. , 2015, , .		1
133	Single-section quantum well mode-locked laser for 400 Gb/s SSB-OFDM transmission. Optics Express, 2015, 23, 26442.	3.4	34
134	Programmable Wavelength Locking and Routing in a Silicon-Photonic Interconnection Network Implementation. , 2015, , .		9
135	A novel chirp compensation scheme for directly modulated DBR lasers in TWDM-PON system. , 2015, , .		0
136	Comment on: "Impact of Nonlinear Phase Noise on All-Optical Wavelength Conversion of 10.7 GBaud QPSK Data Using Dual Correlated Pumps" IEEE Journal of Quantum Electronics, 2015, 51, 1-2.	1.9	2
137	DM-DD OFDM-RoF System With Adaptive Modulation Using a Gain-Switched Laser. IEEE Photonics Technology Letters, 2015, 27, 856-859.	2.5	8
138	Energy-efficient optical HPC and datacenter networks using optimized wavelength channel allocation. , 2015, , .		5
139	Phase noise tolerant wavelength conversion of Nyquist-WDM superchannels using FWM in SOAs. , 2015, , .		0
140	Reconfigurable optical frequency comb and its applications. , 2015, , .		1
141	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects. , 2015, , .		3
142	Enhanced Optical Comb Generation by Gain-Switching a Single-Mode Semiconductor Laser Close to Its Relaxation Oscillation Frequency. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 592-600.	2.9	41
143	Tbit/s transmission based on mode locked laser frequency comb sources. , 2015, , .		0
144	FBMC for directly modulated passive optical networks (PON). , 2015, , .		2

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145	Highly Robust Dual-Polarization Doubly Differential PSK Coherent Optical Packet Receiver for Energy Efficient Reconfigurable Networks. <i>Journal of Lightwave Technology</i> , 2015, 33, 5218-5226.	4.6	6
146	Large-scale hybrid electronic/optical switching networks for datacenters and HPC systems. , 2015, , .		5
147	Optimum Bias Point in Broadband Subcarrier Multiplexing With Optical IQ Modulators. <i>Journal of Lightwave Technology</i> , 2015, 33, 258-266.	4.6	11
148	Dual mode injection locking of a Fabry-Pérot laser for tunable broadband gain switched comb generation. , 2015, , .		1
149	Quantum Dash Mode-Locked Lasers for Data Centre Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 53-60.	2.9	58
150	All-Analogue Real-Time Broadband Filter Bank Multicarrier Optical Communications System. <i>Journal of Lightwave Technology</i> , 2015, 33, 5073-5083.	4.6	18
151	Reconfigurable WDM“OFDM“PON employing wavelength selective switching with SSB and direct detection optical OFDM. <i>Optics Communications</i> , 2015, 334, 314-318.	2.1	3
152	60-GHz Direct Modulation-Direct Detection OFDM-RoF System Using Gain-Switched Laser. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 193-196.	2.5	12
153	Phase Noise Investigation of Multicarrier Sub-THz Wireless Transmission System Based on an Injection-Locked Gain-Switched Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 590-597.	3.1	35
154	Improved reduced models for single-pass and reflective semiconductor optical amplifiers. <i>Optics Communications</i> , 2015, 334, 170-173.	2.1	66
155	100 Gb/s Multicarrier THz Wireless Transmission System With High Frequency Stability Based on A Gain-Switched Laser Comb Source. <i>IEEE Photonics Journal</i> , 2015, 7, 1-11.	2.0	85
156	Impact of Nonlinear Phase Noise on All-Optical Wavelength Conversion of 10.7-GBaud QPSK Data Using Dual Correlated Pumps. <i>IEEE Journal of Quantum Electronics</i> , 2015, 51, 1-5.	1.9	6
157	Monolithic optical frequency comb based on quantum dashed mode locked lasers for Tb/s data transmission. , 2015, , .		0
158	Numerical generation of laser-resonance phase noise for optical communication simulators. <i>Applied Optics</i> , 2015, 54, 3398.	2.1	5
159	Chirp-Compensated DBR Lasers for TWDM-PON Applications. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	2.0	11
160	Impact of Band Rejection in Multichannel Broadband Subcarrier Multiplexing. <i>Journal of Optical Communications and Networking</i> , 2015, 7, 248.	4.8	8
161	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. <i>Optics Express</i> , 2015, 23, 724.	3.4	64
162	Software reconfigurable highly flexible gain switched optical frequency comb source. <i>Optics Express</i> , 2015, 23, 23225.	3.4	26

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163	Digital coherent communications with a 1550 nm VCSEL. , 2015, , .		4
164	Analytical Approach to Assess the Impact of Pulse-to-Pulse Phase Coherence of Optical Frequency Combs. IEEE Journal of Quantum Electronics, 2015, 51, 1-8.	1.9	18
165	In-band insertion of RoF LTE Services in OOK based PONs using line coding techniques. Optics Communications, 2015, 356, 488-494.	2.1	3
166	Numerical investigation into the injection-locking phenomena of gain switched lasers for optical frequency comb generation. Applied Physics Letters, 2015, 106, .	3.3	25
167	Terabit/s communications using chip-scale frequency comb sources. , 2015, , .		1
168	Integrated Gain Switched Comb Source for 100 Gb/s WDM-SSB-DD-OFDM System. Journal of Lightwave Technology, 2015, 33, 3525-3532.	4.6	8
169	Excursion-Free Dynamic Wavelength Switching in Amplified Optical Networks. Journal of Optical Communications and Networking, 2015, 7, 898.	4.8	16
170	Demonstration of a 30 Gbps intensity modulation direct detection OFDM-based passive optical network. , 2015, , .		0
171	All Optical Wavelength Conversion of Nyquist-WDM Superchannels Using FWM in SOAs. Journal of Lightwave Technology, 2015, 33, 3959-3967.	4.6	25
172	25-Gb/s OFDM 60-GHz Radio Over Fiber System Based on a Gain Switched Laser. Journal of Lightwave Technology, 2015, 33, 1635-1643.	4.6	30
173	Injection Locked Wavelength De-Multiplexer for Optical Comb-Based Nyquist WDM System. IEEE Photonics Technology Letters, 2015, 27, 2595-2598.	2.5	20
174	Tunable terahertz wave generation through a bimodal laser diode and plasmonic photomixer. Optics Express, 2015, 23, 31206.	3.4	44
175	Investigation of the effects of laser non-linearity and RIN in direct modulation hybrid wired/wireless PON systems employing an integrated two section laser. Optics Communications, 2015, 338, 496-504.	2.1	1
176	Coherent Terabit Communications Using Chip-Scale Frequency Comb Sources. , 2015, , .		0
177	100Gb/s WDM-SSB-DD-OFDM using a Gain Switched Monolithically Integrated Passive Feedback Comb Source. , 2015, , .		1
178	UDWDM PON with 6 Å— 2.5GBaud 16-QAM Multicarrier Transmitter and Phase Noise Tolerant Direct Detection. , 2015, , .		1
179	Performance Investigation of IM/DD Compatible SSB-OFDM Systems Based on Optical Multicarrier Sources. IEEE Photonics Journal, 2014, 6, 1-10.	2.0	16
180	Optical multicarrier based IM/DD DWDM-SSB-OFDM access networks with SOAs for power budget extension. , 2014, , .		1

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181	Dynamic characteristics of InGaAs/InP multiple quantum well discrete mode laser diodes emitting at 2 μ m. Electronics Letters, 2014, 50, 948-950.	1.0	8
182	60 GHz SSB SCM QPSK radio over fibre system based on a gain switched distributed feedback laser. , 2014, , .		0
183	Reduced waiting times using a fast switching dual-polarization DDQPSK receiver in a packet switched network. , 2014, , .		3
184	Numerical investigation into the dynamics of externally-injected, gain-switched lasers for optical comb generation. , 2014, , .		4
185	Low linewidth discrete mode lasers for coherent communications applications. , 2014, , .		0
186	Monolithically Integrated 2-Section Lasers for Injection Locked Gain Switched Comb Generation. , 2014, , .		16
187	Spectral shaping for hybrid wired/wireless PON with DC balanced encoding. , 2014, , .		3
188	Long Reach UDWDM PON with SCM-QPSK Modulation and Direct Detection. , 2014, , .		5
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