

Liam Barry

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.

338
papers

3,223
citations

28
h-index

39
g-index

440
ext. papers

4,162
ext. citations

2.5
avg, IF

5.24
L-index

#	Paper	IF	Citations
338	High-Resolution Simulation of Externally Injected Lasers Revealing a Large Regime of Noise-Induced Chaos. <i>Photonics</i> , 2022 , 9, 83	2.2	
337	Intra-Data Centre Flexible PAM Transmission System Using an Integrated InP-Si ₃ N ₄ Dual Laser Module. <i>IEEE Photonics Journal</i> , 2022 , 14, 1-6	1.8	
336	Single-Lane 54-Gbit/s PAM-4/8 Signal Transmissions Using 10G-Class Directly Modulated Lasers Enabled by Low-Complexity Nonlinear Digital Equalization. <i>IEEE Photonics Journal</i> , 2022 , 1-1	1.8	1
335	Injection Locking Properties of an InP-Si ₃ N ₄ Dual Laser Source for Mm-wave Communications. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	0
334	Wavelength & mm-wave flexible converged optical fronthaul with a low noise Si-based integrated dual laser source. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	
333	DROAD: Demand-aware reconfigurable optically-switched agile data center network. <i>Optical Switching and Networking</i> , 2022 , 100683	1.6	
332	High-speed PAM-4 Signal Transmissions with Directly Modulated Lasers for the Next-Generation Passive Optical Networks 2021 ,		1
331	54-Gbit/s PAM-8 Transmission in Next-Generation Passive Optical Networks using Directly Modulated Lasers with Machine Learning Techniques 2021 ,		1
330	Flexible Optical and Millimeter-Wave Analog-RoF Transmission with a Silicon-based Integrated Dual Laser Module 2021 ,		2
329	28 GBd PAM-8 transmission over a 100 nm range using an InP-SiN based integrated dual tunable laser module. <i>Optics Express</i> , 2021 , 29, 16563-16571	3.3	4
328	. <i>Journal of Lightwave Technology</i> , 2021 , 39, 465-474	4	15
327	. <i>Journal of Lightwave Technology</i> , 2021 , 39, 388-399	4	5
326	Power optimization for phase quantization with SOAs using the gain extinction ratio. <i>Optics Express</i> , 2021 , 29, 1545-1557	3.3	0
325	Flexible V-band mmWave Analog-RoF Transmission of 5G and WiGig signals using an InP-SiN Integrated Laser Module 2021 ,		1
324	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. <i>Journal of Lightwave Technology</i> , 2020 , 38, 5708-5715	4	8
323	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. <i>Journal of Lightwave Technology</i> , 2020 , 38, 5386-5392	4	12
322	Real-time machine learning based fiber-induced nonlinearity compensation in energy-efficient coherent optical networks. <i>APL Photonics</i> , 2020 , 5, 041301	5.2	10

321	Applicability of small-signal laser and fiber models for passive optical networks operating at the 1550 nm window. <i>Optical Fiber Technology</i> , 2020 , 56, 102203	2.4	
320	Quantum Dash Passively Mode Locked Laser for Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber Fronthaul Systems 2020 ,		7
319	Compensation of nonlinear distortion in coherent optical OFDM systems using a MIMO deep neural network-based equalizer. <i>Optics Letters</i> , 2020 , 45, 5820-5823	3	5
318	CO-OFDM for bandwidth-reconfigurable optical interconnects using gain-switched comb. <i>OSA Continuum</i> , 2020 , 3, 2925	1.4	4
317	56 Gb/s/over 1.3 THz frequency range and 400G DWDM PAM-4 transmission with a single quantum dash mode-locked laser source. <i>Optics Express</i> , 2020 , 28, 22443-22449	3.3	2
316	Active demultiplexer enabled mmW ARoF transmission of directly modulated 64-QAM UF-OFDM signals. <i>Optics Letters</i> , 2020 , 45, 5246-5249	3	4
315	Histogram Based Clustering for Nonlinear Compensation in Long Reach Coherent Passive Optical Networks. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 152	2.6	3
314	Comparison of Analogue and Digital Fronthaul for 5G MIMO Signals 2020 ,		1
313	AgileDCN: An Agile Reconfigurable Optical Data Center Network Architecture. <i>Journal of Lightwave Technology</i> , 2020 , 38, 4922-4934	4	3
312	Compensation of fiber dispersion induced-power fading in reconfigurable millimeter-wave optical networks. <i>Optics Communications</i> , 2020 , 476, 126308	2	2
311	Harnessing machine learning for fiber-induced nonlinearity mitigation in long-haul coherent optical OFDM. <i>Future Internet</i> , 2019 , 11, 2	3.3	20
310	Identifying the Contribution of Carrier Shot Noise and Random Carrier Recombination to Excess Frequency Noise in Tunable Lasers. <i>Photonics</i> , 2019 , 6, 4	2.2	
309	. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3875-3881	4	14
308	Chirp Compensation of Directly Modulated 3s-DBR Laser for WDM-RoF-Based Mobile Fronthaul. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1171-1174	2.2	1
307	A Blind Nonlinearity Compensator Using DBSCAN Clustering for Coherent Optical Transmission Systems. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4398	2.6	7
306	All-Optical Network Capacity for 5G Cellular Fronthaul 2019 ,		1
305	Power efficient optical frequency comb generation using laser gain switching and dual-drive Mach-Zehnder modulator. <i>Optics Express</i> , 2019 , 27, 24135-24146	3.3	9
304	Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber with Photonic Integrated Tunable Lasers 2019 ,		5

303	Reduction of nonlinear distortion in SOA-based wavelength conversion system by post-blind-compensation based on machine learning clustering 2019 ,		1
302	OFDM Baud Rate Limitations in an Optical Heterodyne Analog Fronthaul Link using Unlocked Fibre Lasers 2019 ,		7
301	DBSCAN-Based Clustering for Nonlinearity Induced Penalty Reduction in Wavelength Conversion Systems. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1709-1712	2.2	4
300	Parallelized Kalman Filters for Mitigation of the Excess Phase Noise of Fast Tunable Lasers in Coherent Optical Communication Systems. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	1
299	Blind Nonlinearity Equalization by Machine-Learning-Based Clustering for Single- and Multichannel Coherent Optical OFDM. <i>Journal of Lightwave Technology</i> , 2018 , 36, 721-727	4	37
298	Quantum Dash Passively Mode-Locked Lasers for Coherent Wavelength Conversion System. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 947-950	2.2	1
297	Unsupervised Support Vector Machines for Nonlinear Blind Equalization in CO-OFDM. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1091-1094	2.2	5
296	Performance Analysis of Analog IF Over Fiber Fronthaul Link With 4G and 5G Coexistence. <i>Journal of Optical Communications and Networking</i> , 2018 , 10, 174	4.1	27
295	Doubly differential star-16-QAM for fast wavelength switching coherent optical packet transceiver. <i>Optics Express</i> , 2018 , 26, 8201-8212	3.3	3
294	Tapless and topology agnostic calibration solution for silicon photonic switches. <i>Optics Express</i> , 2018 , 26, 32662-32674	3.3	8
293	Narrow linewidth hybrid InP-TriPLeX photonic integrated tunable laser based on silicon nitride micro-ring resonators 2018 ,		5
292	Doubly Differential Two-level 8PSK for Enabling Optical Packet Switching in Coherent Systems 2018 ,		2
291	Optical Switching in Datacenters: Architectures Based on Optical Circuit Switching 2018 , 23-44		1
290	256/64-QAM Multicarrier Analog Radio-over-Fiber Modulation using a Linear Differential Drive Silicon Mach-Zehnder Modulator 2018 ,		3
289	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 <i>IEEE Photonics Journal</i> , 2018 , 10, 1-1	1.8	3
288	Numerical investigation of a feed-forward linewidth reduction scheme using a mode-locked laser model of reduced complexity. <i>Applied Optics</i> , 2018 , 57, E89-E100	1.7	
287	Gain-Switched Optical Frequency Combs for Future Mobile Radio-Over-Fiber Millimeter-Wave Systems. <i>Journal of Lightwave Technology</i> , 2018 , 36, 4602-4610	4	42
286	AgileDC: A Novel Optical Data Center Network Architecture 2018 ,		1

285	. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-8	1.8	13
284	Experimental Comparison of FBMC and OFDM for Multiple Access Uplink PON. <i>Journal of Lightwave Technology</i> , 2017 , 35, 1595-1604	4	22
283	Injection-locking criteria for simultaneously locking single-mode lasers to optical frequency combs from gain-switched lasers 2017 ,		2
282	Investigation Into the Phase Noise of Modulated Grating Y-Branch Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-9	3.8	3
281	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. <i>Journal of Lightwave Technology</i> , 2017 , 35, 2981-2987	4	2
280	Software-Defined Silicon-Photonics-Based Metro Node For Spatial and Wavelength Superchannel Switching. <i>Journal of Optical Communications and Networking</i> , 2017 , 9, 342	4.1	3
279	Filter Bank Multicarrier (FBMC) for long-reach intensity modulated optical access networks. <i>Optics Communications</i> , 2017 , 389, 110-117	2	6
278	InP photonic integrated externally injected gain switched optical frequency comb. <i>Optics Letters</i> , 2017 , 42, 555-558	3	16
277	Converged wired and wireless services in next generation optical access networks 2017 ,		4
276	60 GHz 5G Radio-Over-Fiber Using UF-OFDM With Optical Heterodyning. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 2059-2062	2.2	19
275	Photonic Integrated Gain Switched Optical Frequency Comb for Spectrally Efficient Optical Transmission Systems. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-8	1.8	13
274	Effect of nonlinear gain on the phase noise of Y-branch lasers. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	
273	SDN control of optical nodes in metro networks for high capacity inter-datacentre links. <i>Optics Communications</i> , 2017 , 402, 173-180	2	2
272	5G wireless and wired convergence in a passive optical network using UF-OFDM and GFDM 2017 ,		17
271	Modelling and dimensioning of a high-radix datacentre optical packet switch with recirculating optical buffers. <i>Optical Switching and Networking</i> , 2017 , 23, 67-81	1.6	0
270	28 GHz 5G radio over fibre using UF-OFDM with optical heterodyning 2017 ,		5
269	Comparison of OFDMA and GFDM for Next-Generation PONs. <i>Journal of Optical Communications and Networking</i> , 2017 , 9, 1064	4.1	4
268	Calculation of Receiver Sensitivities in (Orthogonal) Subcarrier Multiplexing Microwave-Optical Links. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 184	2.6	1

267	Mitigation of relative intensity noise of quantum dash mode-locked lasers for PAM4 based optical interconnects using encoding techniques. <i>Optics Express</i> , 2017 , 25, 20-29	3.3	27
266	Investigation of intensity noise transfer during four-wave mixing in nonlinear optical media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 389	1.7	0
265	Software-defined control-plane for wavelength selective unicast and multicast of optical data in a silicon photonic platform. <i>Optics Express</i> , 2017 , 25, 232-242	3.3	21
264	Estimation of the Performance Improvement of Pre-Amplified PAM4 Systems When Using Multi-Section Semiconductor Optical Amplifiers. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 908	2.6	2
263	Fast Reconfigurable SOA-Based Wavelength Conversion of Advanced Modulation Format Data. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1033	2.6	0
262	Investigation of the Performance of GFDMA and OFDMA for Spectrally Efficient Broadband PONs 2017 ,		2
261	Dual Laser Switching for Dynamic Wavelength Operation in Amplified Optical Transmission 2017 ,		3
260	Frequency noise reduction performance of a feed-forward heterodyne technique: application to an actively mode-locked laser diode. <i>Optics Letters</i> , 2017 , 42, 4000-4003	3	6
259	Optical Circuit Switching/Multicasting of Burst Mode PAM-4 using a Programmable Silicon Photonic Chip 2017 ,		1
258	Fast reconfigurable SOA-based all-optical wavelength conversion of QPSK data employing switching tunable pump lasers 2017 ,		2
257	Polarization insensitive all-optical wavelength conversion of polarization multiplexed signals using co-polarized pumps. <i>Optics Express</i> , 2016 , 24, 11749-61	3.3	10
256	Impact of Laser Mode Partition Noise on Optical Heterodyning at Millimeter-Wave Frequencies. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4278-4284	4	11
255	Scalable OCS-based intra/inter data center network with optical ToR switches 2016 ,		2
254	. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4162-4168	4	2
253	100 km Coherent Nyquist Ultradense Wavelength Division Multiplexed Passive Optical Network Using a Tunable Gain-Switched Comb Source. <i>Journal of Optical Communications and Networking</i> , 2016 , 8, 112	4.1	8
252	WDM Orthogonal Subcarrier Multiplexing. <i>Journal of Lightwave Technology</i> , 2016 , 34, 1815-1823	4	10
251	Optical packet switch with energy-efficient hybrid optical/electronic buffering for data center and HPC networks. <i>Photonic Network Communications</i> , 2016 , 32, 89-103	1.7	8
250	Phase Noise Reduction of an Optical Frequency Comb Using a Feed-Forward Heterodyne Detection Scheme. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-7	1.8	13

249	Format-independent polarization-demultiplexing technique for dual-polarization intensity modulated signals. <i>Applied Optics</i> , 2016 , 55, 1658-62	0.2	0
248	Pump linewidth requirements for processing dispersion-altered DQPSK signals using FWM. <i>Optics Communications</i> , 2016 , 366, 179-184	2	
247	Tbit/s Optical Interconnects Based on Low Linewidth Quantum-Dash Lasers and Coherent Detection 2016 ,		4
246	Wavelength conversion of Nyquist Pol-Mux QPSK superchannel using four-wave mixing in SOA 2016 ,		2
245	Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. <i>Optics Letters</i> , 2016 , 41, 5676-5679	3	4
244	Asymmetric corner frequency in the 1/f FM-noise PSD of optical frequency combs generated by quantum-dash mode-locked lasers. <i>Applied Physics Letters</i> , 2016 , 109, 181102	3.4	1
243	Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. <i>Applied Optics</i> , 2016 , 55, 4441-5	0.2	4
242	Flexible wavelength de-multiplexer for elastic optical networking. <i>Optics Letters</i> , 2016 , 41, 2241-4	3	5
241	200-Gb/s Baudrate-Pilot-Aided QPSK/Direct Detection With Single-Section Quantum-Well Mode-Locked Laser. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-7	1.8	6
240	Large-scale optical datacentre networks using hybrid Fibre Delay Line buffers and packet Retransmission 2016 ,		1
239	. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-7	2	22
238	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	3.4	22
237	Improved reduced models for single-pass and reflective semiconductor optical amplifiers. <i>Optics Communications</i> , 2015 , 334, 170-173	2	35
236	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	1.8	60
235	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	2	4
234	Numerical generation of laser-resonance phase noise for optical communication simulators. <i>Applied Optics</i> , 2015 , 54, 3398-406	0.2	3
233	Chirp-Compensated DBR Lasers for TWDM-PON Applications. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-9	1.8	8
232	Impact of Band Rejection in Multichannel Broadband Subcarrier Multiplexing. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, 248	4.1	8

231	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. <i>Optics Express</i> , 2015 , 23, 724-38	3-3	38
230	Software reconfigurable highly flexible gain switched optical frequency comb source. <i>Optics Express</i> , 2015 , 23, 23225-35	3-3	22
229	Digital coherent communications with a 1550 nm VCSEL 2015 ,		4
228	. <i>IEEE Journal of Quantum Electronics</i> , 2015 , 51, 1-8	2	13
227	In-band insertion of RoF LTE Services in OOK based PON using line coding techniques. <i>Optics Communications</i> , 2015 , 356, 488-494	2	1
226	Numerical investigation into the injection-locking phenomena of gain switched lasers for optical frequency comb generation. <i>Applied Physics Letters</i> , 2015 , 106, 211105	3-4	19
225	Terabit/s communications using chip-scale frequency comb sources 2015 ,		1
224	Integrated Gain Switched Comb Source for 100 Gb/s WDM-SSB-DD-OFDM System. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3525-3532	4	7
223	Excursion-Free Dynamic Wavelength Switching in Amplified Optical Networks. <i>Journal of Optical Communications and Networking</i> , 2015 , 7, 898	4-1	13
222	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 3959-3967	4	16
221	25-Gb/s OFDM 60-GHz Radio Over Fiber System Based on a Gain Switched Laser. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1635-1643	4	22
220	Injection Locked Wavelength De-Multiplexer for Optical Comb-Based Nyquist WDM System. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 2595-2598	2-2	12
219	Tunable terahertz wave generation through a bimodal laser diode and plasmonic photomixer. <i>Optics Express</i> , 2015 , 23, 31206-15	3-3	26
218	Investigation of the effects of laser non-linearity and RIN in direct modulation hybrid wired/wireless PON systems employing an integrated two section laser. <i>Optics Communications</i> , 2015 , 338, 496-504	2	1
217	100 Gbit/s real-time all-analogue filter bank OFDM based on a gain-switched optical comb 2015 ,		3
216	Single-section quantum well mode-locked laser for 400 Gb/s SSB-OFDM transmission. <i>Optics Express</i> , 2015 , 23, 26442-9	3-3	22
215	Programmable Wavelength Locking and Routing in a Silicon-Photonic Interconnection Network Implementation 2015 ,		7
214	Comment on: 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, 1-2	2	

213	DM-DD OFDM-RoF System With Adaptive Modulation Using a Gain-Switched Laser. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 856-859	2.2	7
212	2015 ,		4
211	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects 2015 ,		3
210	Enhanced Optical Comb Generation by Gain-Switching a Single-Mode Semiconductor Laser Close to Its Relaxation Oscillation Frequency. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 592-600	3.8	26
209	FBMC for directly modulated passive optical networks (PON) 2015 ,		1
208	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	5
207	Large-scale hybrid electronic/optical switching networks for datacenters and HPC systems 2015 ,		3
206	Optimum Bias Point in Broadband Subcarrier Multiplexing With Optical IQ Modulators. <i>Journal of Lightwave Technology</i> , 2015 , 33, 258-266	4	11
205	Dual mode injection locking of a Fabry-Pérot laser for tunable broadband gain switched comb generation 2015 ,		1
204	Quantum Dash Mode-Locked Lasers for Data Centre Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 53-60	3.8	46
203	All-Analogue Real-Time Broadband Filter Bank Multicarrier Optical Communications System. <i>Journal of Lightwave Technology</i> , 2015 , 33, 5073-5083	4	13
202	Reconfigurable WDM-OFDM-PON employing wavelength selective switching with SSB and direct detection optical OFDM. <i>Optics Communications</i> , 2015 , 334, 314-318	2	2
201	60-GHz Direct Modulation-Direct Detection OFDM-RoF System Using Gain-Switched Laser. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 193-196	2.2	6
200	Side mode suppression and dispersion compensation analysis of a 60GHz radio-over-fibre system based on a gain switched laser. <i>Optics Communications</i> , 2014 , 313, 36-41	2	1
199	BER Performance of Coherent Optical Communications Systems Employing Monolithic Tunable Lasers With Excess Phase Noise. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1973-1980	4	18
198	Performance of a Semi-Nyquist NRZ-DQPSK System Employing a Flexible Gain-Switched Multicarrier Transmitter. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 282	4.1	1
197	Pilot-Tone-Aided Transmission of High-Order QAM for Optical Packet Switched Networks. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 152	4.1	4
196	60 GHz Radio Over Fiber System Based on Gain-Switched Laser. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3695-3703	4	21

195	All-optical wavelength conversion of spectrally-efficient modulation formats for future networks 2014 ,		1
194	Chromatic Dispersion-Induced Optical Phase Decorrelation in a 60 GHz OFDM-RoF System. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 2016-2019	2.2	22
193	80-km Coherent DWDM-PON on 20-GHz Grid With Injected Gain Switched Comb Source. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 364-367	2.2	9
192	Detailed Investigation of the Pump Phase Noise Tolerance for Wavelength Conversion of 16-QAM Signals Using FWM. <i>Journal of Optical Communications and Networking</i> , 2014 , 6, 793	4.1	6
191	2014 ,		2
190	Simulations of the OSNR and laser linewidth limits for reliable wavelength conversion of DQPSK signals using four-wave mixing. <i>Optics Communications</i> , 2014 , 310, 150-155	2	8
189	Reduced OSNR Penalty for Frequency Drift Tolerant Coherent Packet Switched Systems Using Doubly Differential Decoding 2014 ,		4
188	Cascaded Fabry-Pérot lasers for coherent expansion of wavelength tunable gain switched comb 2014 ,		2
187	Performance Investigation of IM/DD Compatible SSB-OFDM Systems Based on Optical Multicarrier Sources. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-10	1.8	14
186	Optical multicarrier based IM/DD DWDM-SSB-OFDM access networks with SOAs for power budget extension 2014 ,		1
185	Dynamic characteristics of InGaAs/InP multiple quantum well discrete mode laser diodes emitting at 2 μ m. <i>Electronics Letters</i> , 2014 , 50, 948-950	1.1	6
184	Reduced waiting times using a fast switching dual-polarization DDQPSK receiver in a packet switched network 2014 ,		3
183	Numerical investigation into the dynamics of externally-injected, gain-switched lasers for optical comb generation 2014 ,		4
182	Monolithically Integrated 2-Section Lasers for Injection Locked Gain Switched Comb Generation 2014 ,		12
181	Spectral shaping for hybrid wired/wireless PON with DC balanced encoding 2014 ,		2
180	Long Reach UDWDM PON with SCM-QPSK Modulation and Direct Detection 2014 ,		3
179	Simple analytical model for low-frequency frequency-modulation noise of monolithic tunable lasers. <i>Applied Optics</i> , 2014 , 53, 830-5	1.7	9
178	Phase noise analysis of injected gain switched comb source for coherent communications. <i>Optics Express</i> , 2014 , 22, 8120-5	3.3	28

177	Measuring the correlation of two optical frequencies using four-wave mixing. <i>Applied Optics</i> , 2014 , 53, 7704-8	0.2	2
176	Penalty-free wavelength conversion with variable channel separation using gain-switched comb source. <i>Optics Communications</i> , 2014 , 324, 69-72	2	4
175	WDM-OFDM-PON Based on Compatible SSB Technique Using a Mode Locked Comb Source. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2058-2061	2.2	20
174	Quantum dot mode locked lasers for coherent frequency comb generation 2013 ,		2
173	Overflow traffic moments in channel groups with Bernoulli-Poisson-Pascal (BPP) load 2013 ,		2
172	Phase Noise Characterization of SGDBR Lasers Using Phase Modulation Detection Method With Delayed Self-Heterodyne Measurements. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1300-1308	4	47
171	Simulations of an OSNR-Limited All-Optical Wavelength Conversion Scheme. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2311-2314	2.2	13
170	Hybrid wired/wireless OFDM-PON with direct modulation of integrated lasers employing optical injection 2013 ,		3
169	Demonstrating Doubly-Differential Quadrature Phase Shift Keying in the Optical Domain. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1054-1057	2.2	5
168	A distributed framework for energy-efficient lightpaths in computational grids. <i>Journal of High Speed Networks</i> , 2013 , 19, 1-18	0.4	2
167	Flexible Optical Comb Source for Super Channel Systems 2013 ,		30
166	Gain-switched multicarrier transmitter in a long-reach UDWDM PON with a digital coherent receiver. <i>Optics Letters</i> , 2013 , 38, 4797-800	3	8
165	Optical Burst-Switched SSB-OFDM Using a Fast Switching SG-DBR Laser. <i>Journal of Optical Communications and Networking</i> , 2013 , 5, 994	4.1	10
164	Dual correlated pumping scheme for phase noise preservation in all-optical wavelength conversion. <i>Optics Express</i> , 2013 , 21, 15568-79	3.3	28
163	Theoretical Analysis of Tunable Three-Section Slotted Fabry-Perot Lasers Based on Time-Domain Traveling-Wave Model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-8	3.8	7
162	Transmission over 50 km using a directly modulated integrated two-section discrete mode laser at 1550 nm 2013 ,		1
161	Effect of phase noise on all-optical wavelength conversion of DQPSK data using FWM 2013 ,		1
160	Detailed experimental phase noise characterization of Y-branch lasers for use in coherent communication systems 2013 ,		3

159	Performance enhancement of 10 Gb/s direct modulation optical OFDM by external optical injection. <i>Optics Communications</i> , 2012 , 285, 136-139	2	
158	Time-resolved chirp measurement for 100GBaud test systems using an ideal frequency discriminator. <i>Optics Communications</i> , 2012 , 285, 2039-2043	2	3
157	Cost Minimisation for Optical Burst Switched Networks with Share-per-Node Fibre Delay Lines. <i>IEEE Communications Letters</i> , 2012 , 16, 945-948	3.8	1
156	Delayed Self-Heterodyne Phase Noise Measurements With Coherent Phase Modulation Detection. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 249-251	2.2	32
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