Liam Barry

List of Publications by Citations

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	. *IEEE Photonics Journal*, **2011**, 3, 112-122	1.8	85
337	High performance mode locking characteristics of single section quantum dash lasers. *Optics Express*, **2012**, 20, 8649-57	3.3	84
336	40 nm wavelength tunable gain-switched optical comb source. *Optics Express*, **2011**, 19, B415-20	3.3	68
335	100 Gb/s Multicarrier THz Wireless Transmission System With High Frequency Stability Based on A Gain-Switched Laser Comb Source. *IEEE Photonics Journal*, **2015**, 7, 1-11	1.8	60
334	Phase Noise Characterization of SGDBR Lasers Using Phase Modulation Detection Method With Delayed Self-Heterodyne Measurements. *Journal of Lightwave Technology*, **2013**, 31, 1300-1308	4	47
333	Discrete mode lasers for communication applications. *IET Optoelectronics*, **2009**, 3, 1-17	1.5	47
332	Quantum Dash Mode-Locked Lasers for Data Centre Applications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 53-60	3.8	46
331	Remote downconversion with wavelength reuse for the radio/fiber uplink connection. *IEEE Photonics Technology Letters*, **2006**, 18, 562-564	2.2	46
330	. *IEEE Photonics Technology Letters*, **1993**, 5, 1132-1134	2.2	45
329	Gain-Switched Optical Frequency Combs for Future Mobile Radio-Over-Fiber Millimeter-Wave Systems. *Journal of Lightwave Technology*, **2018**, 36, 4602-4610	4	42
328	Complete characterization of ultrashort pulse sources at 1550 nm. *IEEE Journal of Quantum Electronics*, **1999**, 35, 441-450	2	41
327	Flexible terabit/s Nyquist-WDM super-channels using a gain-switched comb source. *Optics Express*, **2015**, 23, 724-38	3.3	38
326	Blind Nonlinearity Equalization by Machine-Learning-Based Clustering for Single- and Multichannel Coherent Optical OFDM. *Journal of Lightwave Technology*, **2018**, 36, 721-727	4	37
325	Improved reduced models for single-pass and reflective semiconductor optical amplifiers. *Optics Communications*, **2015**, 334, 170-173	2	35
324	Optimized pulse source employing an externally injected gain-switched laser diode in conjunction with a nonlinearly chirped grating. *IEEE Journal of Selected Topics in Quantum Electronics*, **2006**, 12, 255-264	3.8	35
323	Multifunctional operation of a fiber Bragg grating in a WDM/SCM radio over fiber distribution system. *IEEE Photonics Technology Letters*, **2004**, 16, 605-607	2.2	33
322	Two-photon-induced photoconductivity enhancement in semiconductor microcavities: a theoretical investigation. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 2396	1.7	33

321	Delayed Self-Heterodyne Phase Noise Measurements With Coherent Phase Modulation Detection. *IEEE Photonics Technology Letters*, **2012**, 24, 249-251	2.2	32
320	Improved performance of a hybrid radio/fiber system using a directly modulated laser transmitter with external injection. *IEEE Photonics Technology Letters*, **2002**, 14, 233-235	2.2	32
319	Complete pulse characterization at 1.5 mum by cross-phase modulation in optical fibers. *Optics Letters*, **1998**, 23, 1582-4	3	32
318	Quantum-Dot Mode-Locked Lasers With Dual-Mode Optical Injection. *IEEE Photonics Technology Letters*, **2010**, 22, 359-361	2.2	31
317	Flexible Optical Comb Source for Super Channel Systems **2013**,		30
316	Direct measurement of pulse distortion near the zero-dispersion wavelength in an optical fiber by frequency-resolved optical gating. *Optics Letters*, **1997**, 22, 457-9	3	30
315	A Novel Two-Section Tunable Discrete Mode Fabry-Pérot Laser Exhibiting Nanosecond Wavelength Switching. *IEEE Journal of Quantum Electronics*, **2008**, 44, 331-337	2	30
314	Two-photon absorption photocurrent enhancement in bulk AlGaAs semiconductor microcavities. *Applied Physics Letters*, **2002**, 80, 1328-1330	3.4	30
313	Autocorrelation of ultrashort pulses at 1.5 [micro sign]m based on nonlinear response of silicon photodiodes. *Electronics Letters*, **1996**, 32, 1922	1.1	29
312	Phase noise analysis of injected gain switched comb source for coherent communications. *Optics Express*, **2014**, 22, 8120-5	3.3	28
311	Dual correlated pumping scheme for phase noise preservation in all-optical wavelength conversion. *Optics Express*, **2013**, 21, 15568-79	3.3	28
310	In-band OSNR monitoring using a pair of Michelson fiber interferometers. *Optics Express*, **2010**, 18, 3618-25	3.3	28
309	Performance Analysis of Analog IF Over Fiber Fronthaul Link With 4G and 5G Coexistence. *Journal of Optical Communications and Networking*, **2018**, 10, 174	4.1	27
308	Mitigation of relative intensity noise of quantum dash mode-locked lasers for PAM4 based optical interconnects using encoding techniques. *Optics Express*, **2017**, 25, 20-29	3.3	27
307	Tunable terahertz wave generation through a bimodal laser diode and plasmonic photomixer. *Optics Express*, **2015**, 23, 31206-15	3.3	26
306	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	3.8	26
305	Autocorrelation and ultrafast optical thresholding at 1.5 [micro sign]m using a commercial InGaAsP 1.3 [micro sign]m laser diode. *Electronics Letters*, **1998**, 34, 358	1.1	25
304	Optical pulse generation at frequencies up to 20 GHz using external-injection seeding of a gain-switched commercial Fabry-Perot laser. *IEEE Photonics Technology Letters*, **2001**, 13, 1014-1016	2.2	24

303	Effects of phase noise of monolithic tunable laser on coherent communication systems. *Optics Express*, **2012**, 20, B244-9	3.3	23
302	Experimental Comparison of FBMC and OFDM for Multiple Access Uplink PON. *Journal of Lightwave Technology*, **2017**, 35, 1595-1604	4	22
301	Phase Noise Investigation of Multicarrier Sub-THz Wireless Transmission System Based on an Injection-Locked Gain-Switched Laser. *IEEE Transactions on Terahertz Science and Technology*, **2015**, 5, 590-597	3.4	22
300	Software reconfigurable highly flexible gain switched optical frequency comb source. *Optics Express*, **2015**, 23, 23225-35	3.3	22
299	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	22
298	Chromatic Dispersion-Induced Optical Phase Decorrelation in a 60 GHz OFDM-RoF System. *IEEE Photonics Technology Letters*, **2014**, 26, 2016-2019	2.2	22
297	Single-section quantum well mode-locked laser for 400 Gb/s SSB-OFDM transmission. *Optics Express*, **2015**, 23, 26442-9	3.3	22
296	Wide temperature range 0 Optics Express, **2011**, 19, B90-5	3.3	22
295	Characterization of 1.55-□m pulses from a self-seeded gain-switched Fabry-Perot laser diode using frequency-resolved optical gating. *IEEE Photonics Technology Letters*, **1998**, 10, 935-937	2.2	22
294	. *IEEE Journal of Quantum Electronics*, **2016**, 52, 1-7	2	22
293	60 GHz Radio Over Fiber System Based on Gain-Switched Laser. *Journal of Lightwave Technology*, **2014**, 32, 3695-3703	4	21
292	Software-defined control-plane for wavelength selective unicast and multicast of optical data in a silicon photonic platform. *Optics Express*, **2017**, 25, 232-242	3.3	21
291	Harnessing machine learning for fiber-induced nonlinearity mitigation in long-haul coherent optical OFDM. *Future Internet*, **2019**, 11, 2	3.3	20
290	WDM-OFDM-PON Based on Compatible SSB Technique Using a Mode Locked Comb Source. *IEEE Photonics Technology Letters*, **2013**, 25, 2058-2061	2.2	20
289	Integrated Two-Section Discrete Mode Laser. *IEEE Photonics Journal*, **2012**, 4, 2085-2094	1.8	20
288	Numerical investigation into the injection-locking phenomena of gain switched lasers for optical frequency comb generation. *Applied Physics Letters*, **2015**, 106, 211105	3.4	19
287	60 GHz 5G Radio-Over-Fiber Using UF-OFDM With Optical Heterodyning. *IEEE Photonics Technology Letters*, **2017**, 29, 2059-2062	2.2	19
286	Stepped-heterodyne optical complex spectrum analyzer. *Optics Express*, **2010**, 18, 19724-31	3.3	19

285	Characterization of a tunable three-section slotted Fabry-Perot laser for advanced modulation format optical transmission. *Optics Communications*, **2011**, 284, 1616-1621	2	19
284	BER Performance of Coherent Optical Communications Systems Employing Monolithic Tunable Lasers With Excess Phase Noise. *Journal of Lightwave Technology*, **2014**, 32, 1973-1980	4	18
283	Simple technique to improve the spectral quality of gain-switched pulses from a DFB laser. *Electronics Letters*, **1994**, 30, 2143-2145	1.1	18
282	5G wireless and wired convergence in a passive optical network using UF-OFDM and GFDM **2017**,		17
281	Simultaneous measurement of optical fibre nonlinearity and dispersion using frequency resolved optical gating. *Electronics Letters*, **1997**, 33, 707	1.1	17
280	Characterizing Pulse Propagation in Optical Fibers around 1550 nm Using Frequency-Resolved Optical Gating. *Optical Fiber Technology*, **1998**, 4, 237-265	2.4	17
279	. *Journal of Lightwave Technology*, **2015**, 33, 3959-3967	4	16
278	InP photonic integrated externally injected gain switched optical frequency comb. *Optics Letters*, **2017**, 42, 555-558	3	16
277	Fast Wavelength Switching Lasers Using Two-Section Slotted Fabry-Pérot Structures. *IEEE Photonics Technology Letters*, **2006**, 18, 2105-2107	2.2	16
276	High-sensitivity two-photon absorption microcavity autocorrelator. *IEEE Photonics Technology Letters*, **2004**, 16, 1543-1545	2.2	16
275	Mode coherence measurements across a 1.5 THz spectral bandwidth of a passively mode-locked quantum dash laser. *Optics Letters*, **2012**, 37, 1499-501	3	15
274	Phase shift keyed systems based on a gain switched laser transmitter. *Optics Express*, **2009**, 17, 12668-77	3.3	15
273	. *Journal of Lightwave Technology*, **2021**, 39, 465-474	4	15
272	. *Journal of Lightwave Technology*, **2019**, 37, 3875-3881	4	14
271	Performance Investigation of IM/DD Compatible SSB-OFDM Systems Based on Optical Multicarrier Sources. *IEEE Photonics Journal*, **2014**, 6, 1-10	1.8	14
270	Design, Characterization, and Applications of Index-Patterned Fabry-Pérot Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 1621-1631	3.8	14
269	Ultrahigh speed all-optical demultiplexing based on two-photon absorption in a laser diode. *Electronics Letters*, **1998**, 34, 1871	1.1	14
268	Effect of side-mode suppression ratio on the performance of self-seeded gain-switched optical pulses in lightwave communications systems. *IEEE Photonics Technology Letters*, **1999**, 11, 1360-1362	2.2	14

267	Ultra-sensitive all-optical sampling at 1.5 [micro sign]m using waveguide two-photon absorption. *Electronics Letters*, **1999**, 35, 1483	1.1	14
266	. *IEEE Journal of Quantum Electronics*, **2015**, 51, 1-8	2	13
265	Excursion-Free Dynamic Wavelength Switching in Amplified Optical Networks. *Journal of Optical Communications and Networking*, **2015**, 7, 898	4.1	13
264	Phase Noise Reduction of an Optical Frequency Comb Using a Feed-Forward Heterodyne Detection Scheme. *IEEE Photonics Journal*, **2016**, 8, 1-7	1.8	13
263	Simulations of an OSNR-Limited All-Optical Wavelength Conversion Scheme. *IEEE Photonics Technology Letters*, **2013**, 25, 2311-2314	2.2	13
262	Photonic Integrated Gain Switched Optical Frequency Comb for Spectrally Efficient Optical Transmission Systems. *IEEE Photonics Journal*, **2017**, 9, 1-8	1.8	13
261	All-Analogue Real-Time Broadband Filter Bank Multicarrier Optical Communications System. *Journal of Lightwave Technology*, **2015**, 33, 5073-5083	4	13
260	. *Journal of Lightwave Technology*, **2011**, 29, 1547-1554	4	13
259	Electro-Optical Generation and Distribution of Ultrawideband Signals Based on the Gain Switching Technique. *Journal of Optical Communications and Networking*, **2010**, 2, 122	4.1	13
258	Chromatic Dispersion Monitoring of 80-Gb/s OTDM Data Signal via Two-Photon Absorption in a Semiconductor Microcavity. *IEEE Photonics Technology Letters*, **2007**, 19, 21-23	2.2	13
257	Lyot filter based multiwavelength fiber ring laser actively mode-locked at 10GHz using an electroabsorption modulator. *Optics Communications*, **2008**, 281, 3538-3541	2	13
256	Optimization of optical data transmitters for 40-Gb/s lightwave systems using frequency resolved optical gating. *IEEE Photonics Technology Letters*, **2002**, 14, 971-973	2.2	13
255	Multiple RF carrier distribution in a hybrid radio/fiber system employing a self-pulsating laser diode transmitter. *IEEE Photonics Technology Letters*, **2002**, 14, 1599-1601	2.2	13
254	. *IEEE Photonics Journal*, **2018**, 10, 1-8	1.8	13
253	Injection Locked Wavelength De-Multiplexer for Optical Comb-Based Nyquist WDM System. *IEEE Photonics Technology Letters*, **2015**, 27, 2595-2598	2.2	12
252	A Silicon Photonic Switching Platform for Flexible Converged Centralized-Radio Access Networking. *Journal of Lightwave Technology*, **2020**, 38, 5386-5392	4	12
251	Monolithically Integrated 2-Section Lasers for Injection Locked Gain Switched Comb Generation **2014**,		12
250	Spectral amplitude and phase measurement of a 40 GHz free-running quantum-dash modelocked laser diode. *Optics Express*, **2011**, 19, 13628-35	3.3	12

249	Performance improvement of 10 Gb/s direct modulation OFDM by optical injection using monolithically integrated Discrete Mode lasers. *Optics Express*, **2011**, 19, B289-94	3.3	12
248	Optical Generation of Modulated Millimeter Waves Based on a Gain-Switched Laser. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 3372-3380	4.1	12
247	Inverse scattering approach to multiwavelength Fabry-PÉrot laser design. *Physical Review A*, **2006**, 74,	2.6	12
246	Impact of Laser Mode Partition Noise on Optical Heterodyning at Millimeter-Wave Frequencies. *Journal of Lightwave Technology*, **2016**, 34, 4278-4284	4	11
245	Optimum Bias Point in Broadband Subcarrier Multiplexing With Optical IQ Modulators. *Journal of Lightwave Technology*, **2015**, 33, 258-266	4	11
244	Fabrication and measurement of a photonic crystal waveguide integrated with a semiconductor optical amplifier. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 768	1.7	11
243	Self-seeding of a gain-switched integrated dual-laser source for the generation of highly wavelength-tunable picosecond optical pulses. *IEEE Photonics Technology Letters*, **2004**, 16, 629-631	2.2	11
242	Wavelength tunable pulse generation at 10 GHz by strong filtered feedback using a gain-switched Fabry-Perot laser. *Electronics Letters*, **1994**, 30, 74-75	1.1	11
241	Real-time machine learning based fiber-induced nonlinearity compensation in energy-efficient coherent optical networks. *APL Photonics*, **2020**, 5, 041301	5.2	10
240	Polarization insensitive all-optical wavelength conversion of polarization multiplexed signals using co-polarized pumps. *Optics Express*, **2016**, 24, 11749-61	3.3	10
239	WDM Orthogonal Subcarrier Multiplexing. *Journal of Lightwave Technology*, **2016**, 34, 1815-1823	4	10
238	Optical Burst-Switched SSB-OFDM Using a Fast Switching SG-DBR Laser. *Journal of Optical Communications and Networking*, **2013**, 5, 994	4.1	10
237	Implementation of a cost-effective optical comb source in a WDM-PON with 10.7 Gb/s data to each ONU and 50 km reach. *Optics Express*, **2010**, 18, 15672-81	3.3	10
236	Dynamic Linewidth Measurement Method via an Optical Quadrature Front End. *IEEE Photonics Technology Letters*, **2011**, 23, 1591-1593	2.2	10
235	Applied Constant Gain Amplification in Circulating Loop Experiments. *Journal of Lightwave Technology*, **2009**, 27, 4686-4696	4	10
234	Performance issues associated with WDM optical systems using self-seeded gain switched pulse sources due to mode partition noise effects. *IEEE Photonics Technology Letters*, **2002**, 14, 1202-1204	2.2	10
233	A high-speed optical star network using TDMA and all-optical demultiplexing techniques. *IEEE Journal on Selected Areas in Communications*, **1996**, 14, 1030-1038	14.2	10
232	80-km Coherent DWDM-PON on 20-GHz Grid With Injected Gain Switched Comb Source. *IEEE Photonics Technology Letters*, **2014**, 26, 364-367	2.2	9

231	Simple analytical model for low-frequency frequency-modulation noise of monolithic tunable lasers. *Applied Optics*, **2014**, 53, 830-5	1.7	9
230	Renewal Model of a Buffered Optical Burst Switch. *IEEE Communications Letters*, **2011**, 15, 91-93	3.8	9
229	Static and dynamic analysis of side-mode suppression of widely tunable sampled grating DBR (SG-DBR) lasers. *Optics Communications*, **2009**, 282, 81-87	2	9
228	Two-section singlemode lasers based on slots suitable for photonic integration. *Electronics Letters*, **2012**, 48, 945	1.1	9
227	Optical signal processing via two-photon absorption in a semiconductor microcavity for the next generation of high-speed optical communications network. *Journal of Lightwave Technology*, **2006**, 24, 2683-2692	4	9
226	Effects of intermodulation distortion on the performance of a hybrid radio/fiber system employing a self-pulsating laser diode transmitter. *IEEE Photonics Technology Letters*, **2003**, 15, 852-854	2.2	9
225	All-optical sampling utilising two-photon absorption in semiconductor microcavity. *Electronics Letters*, **2005**, 41, 489	1.1	9
224	Complete characterisation of pulse propagation in optical fibres using frequency-resolved optical gating. *Electronics Letters*, **1996**, 32, 2339	1.1	9
223	Power efficient optical frequency comb generation using laser gain switching and dual-drive Mach-Zehnder modulator. *Optics Express*, **2019**, 27, 24135-24146	3.3	9
222	Chirp-Compensated DBR Lasers for TWDM-PON Applications. *IEEE Photonics Journal*, **2015**, 7, 1-9	1.8	8
221	Impact of Band Rejection in Multichannel Broadband Subcarrier Multiplexing. *Journal of Optical Communications and Networking*, **2015**, 7, 248	4.1	8
220	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. *Journal of Lightwave Technology*, **2020**, 38, 5708-5715	4	8
219	100 km 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	4.1	8
218	Optical packet switch with energy-efficient hybrid optical/electronic buffering for data center and HPC networks. *Photonic Network Communications*, **2016**, 32, 89-103	1.7	8
217	Simulations of the OSNR and laser linewidth limits for reliable wavelength conversion of DQPSK signals using four-wave mixing. *Optics Communications*, **2014**, 310, 150-155	2	8
216	Gain-switched multicarrier transmitter in a long-reach UDWDM PON with a digital coherent receiver. *Optics Letters*, **2013**, 38, 4797-800	3	8
215	Modulated Millimeter-Wave Generation by External Injection of a Gain Switched Laser. *IEEE Photonics Technology Letters*, **2011**, 23, 447-449	2.2	8
214	Novel Frequency Chirp Compensation Scheme for Directly Modulated SG DBR Tunable Lasers. *IEEE Photonics Technology Letters*, **2009**, 21, 340-342	2.2	8

213	An IR-UWB Photonic Distribution System. *IEEE Photonics Technology Letters*, **2008**, 20, 1884-1886	2.2	8
212	Polarization dependence of a GaAs-based two-photon absorption microcavity photodetector. *Optics Express*, **2008**, 16, 17682-8	3.3	8
211	Cross-Channel Interference Due to Wavelength Drift of Tunable Lasers in DWDM Networks. *IEEE Photonics Technology Letters*, **2007**, 19, 616-618	2.2	8
210	Resonance tuning of two-photon absorption microcavities for wavelength-selective pulse monitoring. *IEEE Photonics Technology Letters*, **2006**, 18, 433-435	2.2	8
209	Characterization of 40-Gbit/s pulses generated using a lithium niobate modulator at 1550 nm using frequency resolved optical gating. *IEEE Transactions on Instrumentation and Measurement*, **2004**, 53, 186-191	3.3	8
208	Generation of widely tunable picosecond pulses with large SMSR by externally injecting a gain-switched dual laser source. *IEEE Photonics Technology Letters*, **2004**, 16, 2344-2346	2.2	8
207	Investigation of stimulated Brillouin scattering effects in radio-over-fiber distribution systems. *Optics Communications*, **2005**, 255, 253-260	2	8
206	Tapless and topology agnostic calibration solution for silicon photonic switches. *Optics Express*, **2018**, 26, 32662-32674	3.3	8
205	Integrated Gain Switched Comb Source for 100 Gb/s WDM-SSB-DD-OFDM System. *Journal of Lightwave Technology*, **2015**, 33, 3525-3532	4	7
204	A Blind Nonlinearity Compensator Using DBSCAN Clustering for Coherent Optical Transmission Systems. *Applied Sciences (Switzerland)*, **2019**, 9, 4398	2.6	7
203	Programmable Wavelength Locking and Routing in a Silicon-Photonic Interconnection Network Implementation **2015**,		7
202	DM-DD OFDM-RoF System With Adaptive Modulation Using a Gain-Switched Laser. *IEEE Photonics Technology Letters*, **2015**, 27, 856-859	2.2	7
201	Theoretical Analysis of Tunable Three-Section Slotted Fabry-Perot Lasers Based on Time-Domain Traveling-Wave Model. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 1-8	3.8	7
200	Low cost comb source in a coherent wavelength division multiplexed system **2010**,		7
199	Two-Photon-Absorption-Based OSNR Monitor for NRZ-PSK Transmission Systems. *IEEE Photonics Technology Letters*, **2010**, 22, 275-277	2.2	7
198	Terahertz-bandwidth coherence measurements of a quantum dash laser in passive and active mode-locking operation. *Optics Letters*, **2012**, 37, 4967-9	3	7
197	Distributed management of energy-efficient lightpaths for computational grids **2012**,		7
196	. *IEEE Journal of Quantum Electronics*, **2009**, 45, 223-232	2	7

195	Characterization of a Turbo-Switch SOA Wavelength Converter Using Spectrographic Pulse Measurement. *IEEE Journal of Selected Topics in Quantum Electronics*, **2008**, 14, 841-848	3.8	7
194	Quantum Dash Passively Mode Locked Laser for Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber Fronthaul Systems **2020**,		7
193	OFDM Baud Rate Limitations in an Optical Heterodyne Analog Fronthaul Link using Unlocked Fibre Lasers **2019**,		7
192	Filter Bank Multicarrier (FBMC) for long-reach intensity modulated optical access networks. *Optics Communications*, **2017**, 389, 110-117	2	6
191	Detailed Investigation of the Pump Phase Noise Tolerance for Wavelength Conversion of 16-QAM Signals Using FWM. *Journal of Optical Communications and Networking*, **2014**, 6, 793	4.1	6
190	60-GHz Direct Modulation-Direct Detection OFDM-RoF System Using Gain-Switched Laser. *IEEE Photonics Technology Letters*, **2015**, 27, 193-196	2.2	6
189	Dynamic characteristics of InGaAs/InP multiple quantum well discrete mode laser diodes emitting at 2 μm. *Electronics Letters*, **2014**, 50, 948-950	1.1	6
188	Optical millimeter-wave generation and transmission system for 1.25Gbit/s downstream link using a gain switched laser. *Optics Communications*, **2009**, 282, 4789-4792	2	6
187	Linewidth of SG-DBR laser and its effect on DPSK transmission. *Optics Communications*, **2010**, 283, 5040-5045	2	6
186	Investigation of noise suppression, pulse intensity and chirp of an actively mode-locked semiconductor fiber ring laser. *Optics Communications*, **2007**, 280, 142-146	2	6
185	System-Performance Analysis of Optimized Gain-Switched Pulse Source Employed in 40- and 80-Gb/s OTDM Systems. *Journal of Lightwave Technology*, **2007**, 25, 1495-1502	4	6
184	Investigation of pulse pedestal and dynamic chirp formation on picosecond pulses after propagation through an SOA. *IEEE Photonics Technology Letters*, **2005**, 17, 1800-1802	2.2	6
183	Cross-channel interference due to wavelength switching events in wavelength packed switched WDM networks. *Optics Communications*, **2006**, 267, 88-91	2	6
182	Characterization of nonlinear switching in a figure-of-eight fiber laser using frequency-resolved optical gating. *IEEE Photonics Technology Letters*, **1998**, 10, 343-345	2.2	6
181	Frequency noise reduction performance of a feed-forward heterodyne technique: application to an actively mode-locked laser diode. *Optics Letters*, **2017**, 42, 4000-4003	3	6
180	200-Gb/s Baudrate-Pilot-Aided QPSK/Direct Detection With Single-Section Quantum-Well Mode-Locked Laser. *IEEE Photonics Journal*, **2016**, 8, 1-7	1.8	6
179	Unsupervised Support Vector Machines for Nonlinear Blind Equalization in CO-OFDM. *IEEE Photonics Technology Letters*, **2018**, 30, 1091-1094	2.2	5
178	Demonstrating Doubly-Differential Quadrature Phase Shift Keying in the Optical Domain. *IEEE Photonics Technology Letters*, **2013**, 25, 1054-1057	2.2	5

177	28 GHz 5G radio over fibre using UF-OFDM with optical heterodyning **2017**,		5
176	Highly Robust Dual-Polarization Doubly Differential PSK Coherent Optical Packet Receiver for Energy Efficient Reconfigurable Networks. *Journal of Lightwave Technology*, **2015**, 33, 5218-5226	4	5
175	Characterization of time-resolved laser differential phase using 3D complementary cumulative distribution functions. *Optics Letters*, **2012**, 37, 1769-71	3	5
174	Time Resolved Bit Error Rate Analysis of a Fast Switching Tunable Laser for Use in Optically Switched Networks. *Journal of Optical Communications and Networking*, **2012**, 4, A77	4.1	5
173	Demonstration and optimization of an optical impulse radio ultrawideband distribution system using a gain-switched laser transmitter. *Journal of Optical Networking*, **2009**, 8, 179		5
172	Characterization of Frequency Drift of Sampled-Grating DBR Laser Module Under Direct Modulation. *IEEE Photonics Technology Letters*, **2008**, 20, 72-74	2.2	5
171	Influence of Cavity Lifetime on High-Finesse Microcavity Two-Photon Absorption Photodetectors. *IEEE Photonics Technology Letters*, **2007**, 19, 432-434	2.2	5
170	Analysis of bit rate dependence up to 80Gbit/s of a simple wavelength converter based on XPM in a SOA and a shifted filtering. *Optics Communications*, **2008**, 281, 5731-5738	2	5
169	Narrow linewidth hybrid InP-TriPleX photonic integrated tunable laser based on silicon nitride micro-ring resonators **2018**,		5
168	Compensation of nonlinear distortion in coherent optical OFDM systems using a MIMO deep neural network-based equalizer. *Optics Letters*, **2020**, 45, 5820-5823	3	5
167	Simplified Overflow Analysis of an Optical Burst Switch with Fibre Delay Lines **2009**,		5
166	Optical Heterodyne Millimeter-Wave Analog Radio-over-Fiber with Photonic Integrated Tunable Lasers **2019**,		5
165	Flexible wavelength de-multiplexer for elastic optical networking. *Optics Letters*, **2016**, 41, 2241-4	3	5
164	. *Journal of Lightwave Technology*, **2021**, 39, 388-399	4	5
163	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, 1-5	2	4
162	Digital coherent communications with a 1550 nm VCSEL **2015**,		4
161	Pilot-Tone-Aided Transmission of High-Order QAM for Optical Packet Switched Networks. *Journal of Optical Communications and Networking*, **2014**, 6, 152	4.1	4
160	Reduced OSNR Penalty for Frequency Drift Tolerant Coherent Packet Switched Systems Using Doubly Differential Decoding **2014**,		4

159	Converged wired and wireless services in next generation optical access networks **2017**,		4
158	Comparison of OFDMA and GFDMA for Next-Generation PONs. *Journal of Optical Communications and Networking*, **2017**, 9, 1064	4.1	4
157	**2015**,		4
156	Numerical investigation into the dynamics of externally-injected, gain-switched lasers for optical comb generation **2014**,		4
155	Penalty-free wavelength conversion with variable channel separation using gain-switched comb source. *Optics Communications*, **2014**, 324, 69-72	2	4
154	Increased Bit Rate Direct Modulation AMO-OFDM Transmission by Optical Injection Using Monolithically Integrated Lasers. *IEEE Photonics Technology Letters*, **2012**, 24, 879-881	2.2	4
153	A two-moment performance analysis of optical burst switched networks with shared fibre delay lines in a feedback configuration. *Optical Switching and Networking*, **2012**, 9, 323-335	1.6	4
152	Interferometer based in-band OSNR monitoring of single and dual polarisation QPSK signals **2010**,		4
151	Energy-efficient lightpaths for computational grids **2012**,		4
150	Two-photon absorption generated by optically amplified signals. *Electronics Letters*, **2008**, 44, 1087	1.1	4
149	Demonstration of Wavelength Packet Switched Radio-Over-Fiber System. *IEEE Photonics Technology Letters*, **2007**, 19, 200-202	2.2	4
148	Experimental investigation of the impact of optical injection on vital parameters of a gain-switched pulse source. *Optics Communications*, **2007**, 277, 150-155	2	4
147	BER performance in wavelength packet-switched WDM systems during nano-second wavelength switching events. *Optics Communications*, **2004**, 242, 171-177	2	4
146	Tbit/s Optical Interconnects Based on Low Linewidth Quantum-Dash Lasers and Coherent Detection **2016**,		4
145	CO-OFDM for bandwidth-reconfigurable optical interconnects using gain-switched comb. *OSA Continuum*, **2020**, 3, 2925	1.4	4
144	Active demultiplexer enabled mmW ARoF transmission of directly modulated 64-QAM UF-OFDM signals. *Optics Letters*, **2020**, 45, 5246-5249	3	4
143	28 GBd PAM-8 transmission over a 100 nm range using an InP-SiN based integrated dual tunable laser module. *Optics Express*, **2021**, 29, 16563-16571	3.3	4
142	Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. *Optics Letters*, **2016**, 41, 5676-5679	3	4

141	Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. *Applied Optics*, **2016**, 55, 4441-5	0.2	4
140	DBSCAN-Based Clustering for Nonlinearity Induced Penalty Reduction in Wavelength Conversion Systems. *IEEE Photonics Technology Letters*, **2019**, 31, 1709-1712	2.2	4
139	Investigation Into the Phase Noise of Modulated Grating Y-Branch Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 1-9	3.8	3
138	Software-Defined Silicon-Photonics-Based Metro Node for Spatial and Wavelength Superchannel Switching. *Journal of Optical Communications and Networking*, **2017**, 9, 342	4.1	3
137	Numerical generation of laser-resonance phase noise for optical communication simulators. *Applied Optics*, **2015**, 54, 3398-406	0.2	3
136	Doubly differential star-16-QAM for fast wavelength switching coherent optical packet transceiver. *Optics Express*, **2018**, 26, 8201-8212	3.3	3
135	Time-resolved chirp measurement for 100GBaud test systems using an ideal frequency discriminator. *Optics Communications*, **2012**, 285, 2039-2043	2	3
134	Hybrid wired/wireless OFDM-PON with direct modulation of integrated lasers employing optical injection **2013**,		3
133	100 Gbit/s real-time all-analogue filter bank OFDM based on a gain-switched optical comb **2015**,		3
132	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects **2015**,		3
131	Large-scale hybrid electronic/optical switching networks for datacenters and HPC systems **2015**,		3
130	Reduced waiting times using a fast switching dual-polarization DDQPSK receiver in a packet switched network **2014**,		3
129	Long Reach UDWDM PON with SCM-QPSK Modulation and Direct Detection **2014**,		3
128	Photonic generation of ultra-wideband signals by direct current modulation on SOA section of an SOA-integrated SGDBR laser. *Optics Express*, **2010**, 18, 7219-27	3.3	3
127	Multiple access interference rejection in OCDMA using a two-photon absorption based semiconductor device. *Optics Communications*, **2009**, 282, 1281-1286	2	3
126	Narrow-Linewidth Discrete-Mode Laser Diodes for Coherent Communication Applications. *Journal of Optical Communications and Networking*, **2012**, 4, A90	4.1	3
125	Reduction of MAI and Beat Noise in OCDMA Systems Using an SA-SOA-TPA-Based Receiver. *IEEE Photonics Technology Letters*, **2009**, 21, 1662-1664	2.2	3
124	Discrete mode lasers for communications applications **2009**,		3

123	Suppression of Residual Single-Photon Absorption Relative to Two-Photon Absorption in High Finesse Planar Microcavities. *IEEE Photonics Technology Letters*, **2008**, 20, 1426-1428	2.2	3
122	Optimized performance map of an EAM for pulse generation and demultiplexing via FROG characterization. *Optics Communications*, **2007**, 273, 500-505	2	3
121	Spectrally compact optical subcarrier multiplexing with 42.6 Gbit/s AM-PSK payload and 2.5 Gbit/s NRZ labels. *Electronics Letters*, **2006**, 42, 1303	1.1	3
120	**2006**,		3
119	Signal degradation due to output filtering of self-seeded gain-switched pulses exhibiting weak inherent side-mode-suppression ratios. *Applied Optics*, **2005**, 44, 7867-71	1.7	3
118	Characterization of wavelength interleaving in radio-over-fiber systems employing WDM/SCM. *Optics Communications*, **2006**, 260, 144-149	2	3
117	Overcoming laser diode nonlinearity issues in multi-channel radio-over-fiber systems. *Optics Communications*, **2004**, 231, 217-225	2	3
116	Cross-channel interference due to mode partition noise in WDM optical systems using self-seeded gain-switched pulse sources. *IEEE Photonics Technology Letters*, **2001**, 13, 242-244	2.2	3
115	Detailed experimental phase noise characterization of Y-branch lasers for use in coherent communication systems **2013**,		3
114	Dual Laser Switching for Dynamic Wavelength Operation in Amplified Optical Transmission **2017**,		3
113	Frequency-resolved optical gating measurement of 1.4 THz beat frequencies from dual wavelength self-seeded gain-switched laser diode. *Electronics Letters*, **1998**, 34, 988	1.1	3
112	Histogram Based Clustering for Nonlinear Compensation in Long Reach Coherent Passive Optical Networks. *Applied Sciences (Switzerland)*, **2020**, 10, 152	2.6	3
111	AgileDCN: An Agile Reconfigurable Optical Data Center Network Architecture. *Journal of Lightwave Technology*, **2020**, 38, 4922-4934	4	3
110	256/64-QAM Multicarrier Analog Radio-over-Fiber Modulation using a Linear Differential Drive Silicon Mach-Zehnder Modulator **2018**,		3
109	Corrections to Characterization of Hybrid InP-TriPleX Photonic Integrated Tunable Lasers Based on Silicon Nitride (Si3N4/SiO2) Microring Resonators for Optical Coherent System *IEEE Photonics Journal*, **2018**, 10, 1-1	1.8	3
108	Injection-locking criteria for simultaneously locking single-mode lasers to optical frequency combs from gain-switched lasers **2017**,		2
107	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. *Journal of Lightwave Technology*, **2017**, 35, 2981-2987	4	2
106	Scalable OCS-based intra/inter data center network with optical ToR switches **2016**,		2

105	. *Journal of Lightwave Technology*, **2016**, 34, 4162-4168	4	2
104	**2014**,		2
103	Cascaded Fabry-P□ot lasers for coherent expansion of wavelength tunable gain switched comb **2014**,		2
102	Quantum dot mode locked lasers for coherent frequency comb generation **2013**,		2
101	Overflow traffic moments in channel groups with Bernoulli-Poisson-Pascal (BPP) load **2013**,		2
100	SDN control of optical nodes in metro networks for high capacity inter-datacentre links. *Optics Communications*, **2017**, 402, 173-180	2	2
99	Estimation of the Performance Improvement of Pre-Amplified PAM4 Systems When Using Multi-Section Semiconductor Optical Amplifiers. *Applied Sciences (Switzerland)*, **2017**, 7, 908	2.6	2
98	Reconfigurable WDM□OFDM□ON employing wavelength selective switching with SSB and direct detection optical OFDM. *Optics Communications*, **2015**, 334, 314-318	2	2
97	A distributed framework for energy-efficient lightpaths in computational grids. *Journal of High Speed Networks*, **2013**, 19, 1-18	0.4	2
96	Spectral shaping for hybrid wired/wireless PON with DC balanced encoding **2014**,		2
95	Measuring the correlation of two optical frequencies using four-wave mixing. *Applied Optics*, **2014**, 53, 7704-8	0.2	2
94	Dual Polarization Interferometric In-Band OSNR Measurement. *IEEE Photonics Technology Letters*, **2012**, 24, 873-875	2.2	2
93	Time-Resolved Q-factor Measurement and Its Application in Performance Analysis of 42.6 Gbit/s Packets Generated by SGDBR Lasers. *Journal of Lightwave Technology*, **2010**, 28, 1144-1151	4	2
92	Analytical model of optical burst switched networks with share-per-node buffers **2011**,		2
91	Novel coherent self-heterodyne receiver based on phase modulation detection. *Optics Express*, **2012**, 20, 6610-5	3.3	2
90	Direct modulation of a tuneable slotted Fabry-P□ot laser with adaptive modulation OFDM. *Optics Express*, **2012**, 20, B399-404	3.3	2
89	. *IEEE Journal of Quantum Electronics*, **2009**, 45, 90-99	2	2
88	Optical Generation and Wireless Transmission of 60 GHz OOK Signals Using Gain Switched Laser **2010**,		2

87	Characterization of a Novel Three-Section Tunable Slotted Fabry-Perot Laser **2010**,		2
86	All-optical sampling and spectrographic pulse measurement using cross-absorption modulation in multiple-quantum-well devices. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, A133	1.7	2
85	. *IEEE Photonics Technology Letters*, **2007**, 19, 321-323	2.2	2
84	Cavity Length Independent Continuous Repetition Rate Tuning of a Self-Seeded Gain-Switched Fabry□Pérot Laser. *IEEE Photonics Technology Letters*, **2007**, 19, 1625-1627	2.2	2
83	Pump□Probe Detuning Dependence of Four-Wave Mixing Pulse in an SOA. *IEEE Photonics Technology Letters*, **2007**, 19, 2033-2035	2.2	2
82	Numerical analysis of four-wave mixing between picosecond mode-locked laser pulses in a tensile-strained bulk SOA. *Optical and Quantum Electronics*, **2008**, 40, 411-418	2.4	2
81	Expanding the range of chromatic dispersion monitoring with two-photon absorption in semiconductors **2007**,		2
80	Generation and Characterisation of 40 GHz Picosecond Optical Pulses Generated Using an EAM **2006**,		2
79	Cross Channel Interference due to Wavelength Drift of Tuneable Lasers in DWDM Networks **2006**,		2
78	Effects of Crosstalk in WDM Optical Label Switching Networks Due to Wavelength Switching of a Tunable Laser. *IEEE Photonics Technology Letters*, **2006**, 18, 2177-2179	2.2	2
77	Overcoming distortion limitations in hybrid radio/photonic systems for the distribution of WCDMA signals. *Electrical Engineering*, **2003**, 85, 191-194	1.5	2
76	Investigation of the Performance of GFDMA and OFDMA for Spectrally Efficient Broadband PONs **2017**,		2
75	Doubly Differential Two-level 8PSK for Enabling Optical Packet Switching in Coherent Systems **2018**,		2
74	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, 22443-22449	3.3	2
73	Flexible Optical and Millimeter-Wave Analog-RoF Transmission with a Silicon-based Integrated Dual Laser Module **2021**,		2
72	Wavelength conversion of Nyquist Pol-Mux QPSK superchannel using four-wave mixing in SOA **2016**,		2
71	Fast reconfigurable SOA-based all-optical wavelength conversion of QPSK data employing switching tunable pump lasers **2017**,		2
70	Compensation of fiber dispersion induced-power fading in reconfigurable millimeter-wave optical networks. *Optics Communications*, **2020**, 476, 126308	2	2

69	In-band insertion of RoF LTE Services in OOK based PONs using line coding techniques. *Optics Communications*, **2015**, 356, 488-494	2	1
68	Terabit/s communications using chip-scale frequency comb sources **2015**,		1
67	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
66	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	1.8	1
65	Quantum Dash Passively Mode-Locked Lasers for Coherent Wavelength Conversion System. *IEEE Photonics Technology Letters*, **2018**, 30, 947-950	2.2	1
64	Chirp Compensation of Directly Modulated 3s-DBR Laser for WDM-RoF-Based Mobile Fronthaul. *IEEE Photonics Technology Letters*, **2019**, 31, 1171-1174	2.2	1
63	All-Optical Network Capacity for 5G Cellular Fronthaul **2019**,		1
62	Side mode suppression and dispersion compensation analysis of a 60GHz radio-over-fibre system based on a gain switched laser. *Optics Communications*, **2014**, 313, 36-41	2	1
61	Performance of a Semi-Nyquist NRZ-DQPSK System Employing a Flexible Gain-Switched Multicarrier Transmitter. *Journal of Optical Communications and Networking*, **2014**, 6, 282	4.1	1
60	All-optical wavelength conversion of spectrally-efficient modulation formats for future networks **2014**,		1
59	Calculation of Receiver Sensitivities in (Orthogonal) Subcarrier Multiplexing Microwave-Optical Links. *Applied Sciences (Switzerland)*, **2017**, 7, 184	2.6	1
58	FBMC for directly modulated passive optical networks (PON) **2015**,		1
57	Dual mode injection locking of a Fabry-Pérot laser for tunable broadband gain switched comb generation **2015**,		1
56	Optical multicarrier based IM/DD DWDM-SSB-OFDM access networks with SOAs for power budget extension **2014**,		1
55	Cost Minimisation for Optical Burst Switched Networks with Share-per-Node Fibre Delay Lines. *IEEE Communications Letters*, **2012**, 16, 945-948	3.8	1
54	Influence of facet reflection of SOA on SOA-integrated SGDBR laser. *Frontiers of Optoelectronics*, **2012**, 5, 390-394	2.8	1
53	Transmission over 50 km using a directly modulated integrated two-section discrete mode laser at 1550 nm **2013**,		1
52	Effect of phase noise on all-optical wavelength conversion of DQPSK data using FWM **2013**,		1

51	Photonic generation and distribution of a modulated 60 GHz signal using a directly modulated gain switched laser **2010**,		1
50	Linewidth Calibration of SG-DBR Lasers. *IEEE Photonics Technology Letters*, **2010**, 22, 1729-1731	2.2	1
49	Nonlinear optical thresholding using a saturable absorber and two-photon absorption based device **2009**,		1
48	Optical Generation, Fiber Distribution and air transmission for Ultra Wide Band over Fiber System **2009**,		1
47	Improved accuracy of a Fourier-domain optical processor with feedback **2011**,		1
46	Discrete mode laser diodes for FTTH/PON applications up to 10 Gbit/s **2012**,		1
45	SG-DBR tunable laser linewidth and its impact on advanced modulation format transmission **2009**,		1
44	Wavelength and Bandwidth Tunable TPA Semiconductor Microcavity Detector for High-Speed Signal Processing in WDM Systems. *IEEE Journal of Quantum Electronics*, **2010**, 46, 1518-1525	2	1
43	Characterisation of an optical clock recovery method based on a mode-locked laser diode using spectrographic pulse measurement. *Optics Express*, **2008**, 16, 10933-42	3.3	1
42	Optimization of a 42.7 Gb/s wavelength tunable RZ transmitter using a linear spectrogram technique. *Optics Express*, **2008**, 16, 11281-8	3.3	1
41	**2008**,		1
40	Fast Tunable Lasers in Radio-over-Fiber Access Networks **2006**,		1
39	Actively Mode-locked Multiwavelength Fibre Ring Laser Incorporating a Lyot Filter, Hybrid Gain Medium and Birefringence Compensated LiNbO3 Modulator **2007**,		1
38	Dispersion Monitoring for High-Speed WDM Networks via Two-Photon Absorption in a Semiconductor Microcavity **2006**,		1
37	Effects of laser diode nonlinearities in hybrid fiber/radio systems **2003**, 4876, 159		1
36	Simulation of a high-speed demultiplexer based on two-photon absorption in semiconductor devices. *Optics Communications*, **2005**, 249, 415-420	2	1
35	High-speed PAM-4 Signal Transmissions with Directly Modulated Lasers for the Next-Generation Passive Optical Networks **2021**,		1
34	54-Gbit/s PAM-8 Transmission in Next-Generation Passive Optical Networks using Directly Modulated Lasers with Machine Learning Techniques **2021**,		1

33	Towards Energy Efficiency for Cloud Computing Services. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*,306-328	0.4	1
32	Analysis of a Buffered Optical Switch with General Interarrival Times. *Journal of Networks*, **2011**, 6,		1
31	Reduction of nonlinear distortion in SOA-based wavelength conversion system by post-blind-compensation based on machine learning clustering **2019**,		1
30	Optical Circuit Switching/Multicasting of Burst Mode PAM-4 using a Programmable Silicon Photonic Chip **2017**,		1
29	Optical Switching in Datacenters: Architectures Based on Optical Circuit Switching **2018**, 23-44		1
28	Comparison of Analogue and Digital Fronthaul for 5G MIMO Signals **2020**,		1
27	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	3.4	1
26	Large-scale optical datacentre networks using hybrid Fibre Delay Line buffers and packet Retransmission **2016**,		1
25	AgileDC: A Novel Optical Data Center Network Architecture **2018**,		1
24	Flexible V-band mmWave Analog-RoF Transmission of 5G and WiGig signals using an InP-SiN Integrated Laser Module **2021**,		1
23	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**, 1-1	1.8	1
22	Format-independent polarization-demultiplexing technique for dual-polarization intensity modulated signals. *Applied Optics*, **2016**, 55, 1658-62	0.2	0
21	Modelling and dimensioning of a high-radix datacentre optical packet switch with recirculating optical buffers. *Optical Switching and Networking*, **2017**, 23, 67-81	1.6	0
20	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	1.7	0
19	Fast Reconfigurable SOA-Based Wavelength Conversion of Advanced Modulation Format Data. *Applied Sciences (Switzerland)*, **2017**, 7, 1033	2.6	0
18	Experimental analysis of phase conjugation properties of four-wave mixing in an SOA after probe broadening due to fibre dispersion. *Optics Communications*, **2008**, 281, 2046-2049	2	0
17	Power optimization for phase quantization with SOAs using the gain extinction ratio. *Optics Express* , **2021**, 29, 1545-1557	3.3	0
16	Injection Locking Properties of an InP-Si3N4 Dual Laser Source for Mm-wave Communications. *Journal of Lightwave Technology*, **2022**, 1-1	4	0

15	Identifying the Contribution of Carrier Shot Noise and Random Carrier Recombination to Excess Frequency Noise in Tunable Lasers. *Photonics*, **2019**, 6, 4	2.2
14	Applicability of small-signal laser and fiber models for passive optical networks operating at the 1550´nm window. *Optical Fiber Technology*, **2020**, 56, 102203	2.4
13	Pump linewidth requirements for processing dispersion-altered DQPSK signals using FWM. *Optics Communications*, **2016**, 366, 179-184	2
12	Performance enhancement of 10 Gb/s direct modulation optical OFDM by external optical injection. *Optics Communications*, **2012**, 285, 136-139	2
11	Effect of nonlinear gain on the phase noise of Y-branch lasers. *Optical and Quantum Electronics*, **2017**, 49, 1	2.4
10	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	2
9	Improved Amplitude and Phase Accuracy of a Fourier-Domain Optical Processor With Feedback. *IEEE Photonics Journal*, **2011**, 3, 718-726	1.8
8	Pulse Pedestal Suppression Using Four-Wave Mixing in an SOA. *IEEE Photonics Technology Letters*, **2008**, 20, 327-329	2.2
7	Impact of tunable laser wavelength drift in a base-band and sub-carrier multiplexed system. *Optics Communications*, **2008**, 281, 4057-4060	2
6	Ultrafast optics for broadband photonic communication systems **2003**, 4876, 206	
5	High-Resolution Simulation of Externally Injected Lasers Revealing a Large Regime of Noise-Induced Chaos. *Photonics*, **2022**, 9, 83	2.2
4	Intra-Data Centre Flexible PAM Transmission System Using an Integrated InP-Si3N4 Dual Laser Module. *IEEE Photonics Journal*, **2022**, 14, 1-6	1.8
3	Numerical investigation of a feed-forward linewidth reduction scheme using a mode-locked laser model of reduced complexity. *Applied Optics*, **2018**, 57, E89-E100	1.7
2	Wavelength & mm-wave flexible converged optical fronthaul with a low noise Si-based integrated dual laser source. *Journal of Lightwave Technology*, **2022**, 1-1	4
1	DROAD: Demand-aware reconfigurable optically-switched agile data center network. *Optical Switching and Networking*, **2022**, 100683	1.6