

Prince Anandarajah

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.

127
papers

1,257
citations

19
h-index

28
g-index

204
ext. papers

1,659
ext. citations

3.1
avg, IF

4.42
L-index

#	Paper	IF	Citations
127	Optical linewidth tolerant mmW generation employing a dual-stage active demultiplexer. <i>IEEE Photonics Technology Letters</i> , 2022 , 1-1	2.2	
126	Absolute distance measurement with a gain-switched dual optical frequency comb. <i>Optics Express</i> , 2021 , 29, 8108-8116	3.3	4
125	Photonicly integrated gain-switched lasers for optical frequency comb generation. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 2219-2226	1.2	1
124	Optical Frequency Comb Expansion Using Mutually Injection-Locked Gain-Switched Lasers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7108	2.6	0
123	Characterization of a multifunctional active demultiplexer for optical frequency combs. <i>Optics and Laser Technology</i> , 2021 , 134, 106637	4.2	4
122	Gain-switched semiconductor laser driven soliton microcombs. <i>Nature Communications</i> , 2021 , 12, 1425	17.4	11
121	Active Demultiplexer-enabled Directly Modulated DMT Transmission Using Optical Frequency Combs for Data Center Interconnects. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5468-5473	4	0
120	Proof of Concept Novel Configurable Chipless RFID Strain Sensor. <i>Sensors</i> , 2021 , 21,	3.8	2
119	Experimental Investigation of External Optical Injection and its Application in Gain-Switched Wavelength Tunable Optical Frequency Comb Generation. <i>Journal of Lightwave Technology</i> , 2021 , 39, 5884-5895	4	0
118	Tunable mm-wave A-RoF transmission scheme employing an optical frequency comb and dual-stage active demultiplexer. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	3
117	Integrated dual optical frequency comb source. <i>Optics Express</i> , 2020 , 28, 16900-16906	3.3	7
116	Active demultiplexer enabled mmW ARoF transmission of directly modulated 64-QAM UF-OFDM signals. <i>Optics Letters</i> , 2020 , 45, 5246-5249	3	4
115	Optical frequency comb generation via pulsed gain-switching in externally-injected semiconductor lasers using step-recovery diodes. <i>Optics and Laser Technology</i> , 2020 , 131, 106392	4.2	3
114	Performance evaluation of a comb-based transmission system employing multi-functional active demultiplexers 2020 ,		2
113	Frequency division using a soliton-injected semiconductor gain-switched frequency comb. <i>Science Advances</i> , 2020 , 6,	14.3	8
112	Current Progress towards the Integration of Thermocouple and Chipless RFID Technologies and the Sensing of a Dynamic Stimulus. <i>Micromachines</i> , 2020 , 11,	3.3	2
111	Characterization and Direct Modulation of a Multi-Section PIC Suited for Short Reach Optical Communication Systems. <i>Photonics</i> , 2020 , 7, 55	2.2	2

110	Compact gain switched optical frequency comb generator for sensing applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1289, 012048	0.3	
109	Expansion and phase correlation of a wavelength tunable gain-switched optical frequency comb. <i>Optics Express</i> , 2019 , 27, 16560-16570	3.3	10
108	Expansion and phase correlation of gain-switched optical frequency combs through FWM in an SOA 2019 ,		2
107	Bidirectional fiber transmission of mmW signals using remote downconversion and wavelength reuse 2019 ,		2
106	Optimum optical frequency comb generation via externally injection of a gain switched VCSEL 2019 ,		2
105	Performance of an injection-locked active demultiplexer for FSR-tunable optical frequency combs 2019 ,		1
104	A Review of Chipless Remote Sensing Solutions Based on RFID Technology. <i>Sensors</i> , 2019 , 19,	3.8	18
103	Off-Axis Cavity-Enhanced Absorption Spectroscopy of NH in Air Using a Gain-Switched Frequency Comb at 1.514 μm . <i>Sensors</i> , 2019 , 19,	3.8	2
102	A Survey of Optical Carrier Generation Techniques for Terabit Capacity Elastic Optical Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 211-263	37.1	43
101	Compensation of nonlinearity in a fiber-optic transmission system using frequency-degenerate phase conjugation through counter-propagating dual pump FWM in a semiconductor optical amplifier. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 045702	1.7	1
100	EKF for Joint Mitigation of Phase Noise, Frequency Offset and Nonlinearity in 400 Gb/s PM-16-QAM and 200 Gb/s PM-QPSK Systems. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-10	1.8	9
99	Injection-locking criteria for simultaneously locking single-mode lasers to optical frequency combs from gain-switched lasers 2017 ,		2
98	InP photonic integrated externally injected gain switched optical frequency comb. <i>Optics Letters</i> , 2017 , 42, 555-558	3	16
97	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
96	Integrated frequency combs for flexible optical networks 2017 ,		1
95	Sub-harmonic injection locking of quantum-dash lasers using spectral enrichment from semiconductor optical amplifiers. <i>Applied Optics</i> , 2017 , 56, 9913	1.7	1
94	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
93	WDM Orthogonal Subcarrier Multiplexing. <i>Journal of Lightwave Technology</i> , 2016 , 34, 1815-1823	4	10

92	Experimental demonstration of optical phase conjugation using counter-propagating dual pumped four-wave mixing in semiconductor optical amplifier. <i>Optics Communications</i> , 2016 , 369, 106-110	2	7
91	Extended Kalman Filter For Estimation of Phase Noises and Frequency Offset in 400G PM-16-QAM systems 2016 ,		2
90	Flexible wavelength de-multiplexer for elastic optical networking. <i>Optics Letters</i> , 2016 , 41, 2241-4	3	5
89	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
88	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
87	Software reconfigurable highly flexible gain switched optical frequency comb source. <i>Optics Express</i> , 2015 , 23, 23225-35	3.3	22
86	. <i>IEEE Journal of Quantum Electronics</i> , 2015 , 51, 1-8	2	13
85	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
84	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
83	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
82	100 Gbit/s real-time all-analogue filter bank OFDM based on a gain-switched optical comb 2015 ,		3
81	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
80	Dual mode injection locking of a Fabry-Pérot laser for tunable broadband gain switched comb generation 2015 ,		1
79	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
78	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
77	60 GHz Radio Over Fiber System Based on Gain-Switched Laser. <i>Journal of Lightwave Technology</i> , 2014 , 32, 3695-3703	4	21
76	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
75	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

74	Cascaded Fabry-Pérot lasers for coherent expansion of wavelength tunable gain switched comb 2014,		2
73	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
72	Optical multicarrier based IM/DD DWDM-SSB-OFDM access networks with SOAs for power budget extension 2014,		1
71	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
70	Numerical investigation into the dynamics of externally-injected, gain-switched lasers for optical comb generation 2014,		4
69	Monolithically Integrated 2-Section Lasers for Injection Locked Gain Switched Comb Generation 2014,		12
68	Long Reach UDWDM PON with SCM-QPSK Modulation and Direct Detection 2014,		3
67	Phase noise analysis of injected gain switched comb source for coherent communications. <i>Optics Express</i> , 2014 , 22, 8120-5	3.3	28
66	25 Gb/s OFDM 60 GHz radio over fibre system using an externally injected gain switched distributed feedback laser 2014,		1
65	Penalty-free wavelength conversion with variable channel separation using gain-switched comb source. <i>Optics Communications</i> , 2014 , 324, 69-72	2	4
64	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
63	Flexible Optical Comb Source for Super Channel Systems 2013,		30
62	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
61	Transmission over 50 km using a directly modulated integrated two-section discrete mode laser at 1550 nm 2013,		1
60	Performance enhancement of 10 Gb/s direct modulation optical OFDM by external optical injection. <i>Optics Communications</i> , 2012 , 285, 136-139	2	
59	Increased Bit Rate Direct Modulation AMO-OFDM Transmission by Optical Injection Using Monolithically Integrated Lasers. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 879-881	2.2	4
58	Integrated Two-Section Discrete Mode Laser. <i>IEEE Photonics Journal</i> , 2012 , 4, 2085-2094	1.8	20
57	Narrow-Linewidth Discrete-Mode Laser Diodes for Coherent Communication Applications. <i>Journal of Optical Communications and Networking</i> , 2012 , 4, A90	4.1	3

56	Direct modulation of a tuneable slotted Fabry-Pérot laser with adaptive modulation OFDM. <i>Optics Express</i> , 2012 , 20, B399-404	3.3	2
55	Discrete mode laser diodes for FTTH/PON applications up to 10 Gbit/s 2012 ,		1
54	Modulated Millimeter-Wave Generation by External Injection of a Gain Switched Laser. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 447-449	2.2	8
53	Performance improvement of 10 Gb/s direct modulation OFDM by optical injection using monolithically integrated Discrete Mode lasers. <i>Optics Express</i> , 2011 , 19, B289-94	3.3	12
52	40 nm wavelength tunable gain-switched optical comb source. <i>Optics Express</i> , 2011 , 19, B415-20	3.3	68
51	. <i>IEEE Photonics Journal</i> , 2011 , 3, 112-122	1.8	85
50	Design, Characterization, and Applications of Index-Patterned Fabry-Pérot Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1621-1631	3.8	14
49	Dynamic Linewidth Measurement Method via an Optical Quadrature Front End. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1591-1593	2.2	10
48	Optical comb generation and expansion by gain switched discrete mode laser diode 2011 ,		3
47	Phase Modulated Optical Millimeter Wave Generation Based on Externally Injected Gain Switched Laser 2011 ,		1
46	Low cost comb source in a coherent wavelength division multiplexed system 2010 ,		7
45	Photonic generation and distribution of a modulated 60 GHz signal using a directly modulated gain switched laser 2010 ,		1
44	Two-Photon-Absorption-Based OSNR Monitor for NRZ-PSK Transmission Systems. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 275-277	2.2	7
43	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. <i>Optics Express</i> , 2010 , 18, 15672-81	3.3	10
42	Electro-Optical Generation and Distribution of Ultrawideband Signals Based on the Gain Switching Technique. <i>Journal of Optical Communications and Networking</i> , 2010 , 2, 122	4.1	13
41	Optical Generation of Modulated Millimeter Waves Based on a Gain-Switched Laser. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 3372-3380	4.1	12
40	Optical Generation and Wireless Transmission of 60 GHz OOK Signals Using Gain Switched Laser 2010 ,		2
39	Linewidth of SG-DBR laser and its effect on DPSK transmission. <i>Optics Communications</i> , 2010 , 283, 5040-5045		6

38	Discrete mode lasers for communication applications. <i>IET Optoelectronics</i> , 2009 , 3, 1-17	1.5	47
37	Optical millimeter-wave generation and transmission system for 1.25Gbit/s downstream link using a gain switched laser. <i>Optics Communications</i> , 2009 , 282, 4789-4792	2	6
36	Phase shift keyed systems based on a gain switched laser transmitter. <i>Optics Express</i> , 2009 , 17, 12668-773.3	15	
35	Novel Frequency Chirp Compensation Scheme for Directly Modulated SG DBR Tunable Lasers. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 340-342	2.2	8
34	SG-DBR tunable laser linewidth and its impact on advanced modulation format transmission 2009 ,		1
33	Discrete mode lasers for communications applications 2009 ,		3
32	Characterization of Frequency Drift of Sampled-Grating DBR Laser Module Under Direct Modulation. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 72-74	2.2	5
31	Optimization of a 42.7 Gb/s wavelength tunable RZ transmitter using a linear spectrogram technique. <i>Optics Express</i> , 2008 , 16, 11281-8	3.3	1
30	2008 ,		1
29	Lyot filter based multiwavelength fiber ring laser actively mode-locked at 10GHz using an electroabsorption modulator. <i>Optics Communications</i> , 2008 , 281, 3538-3541	2	13
28	Analysis of bit rate dependence up to 80Gbit/s of a simple wavelength converter based on XPM in a SOA and a shifted filtering. <i>Optics Communications</i> , 2008 , 281, 5731-5738	2	5
27	. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 321-323	2.2	2
26	Cavity Length Independent Continuous Repetition Rate Tuning of a Self-Seeded Gain-Switched Fabry-Pérot Laser. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1625-1627	2.2	2
25	Optimized performance map of an EAM for pulse generation and demultiplexing via FROG characterization. <i>Optics Communications</i> , 2007 , 273, 500-505	2	3
24	Experimental investigation of the impact of optical injection on vital parameters of a gain-switched pulse source. <i>Optics Communications</i> , 2007 , 277, 150-155	2	4
23	Investigation of noise suppression, pulse intensity and chirp of an actively mode-locked semiconductor fiber ring laser. <i>Optics Communications</i> , 2007 , 280, 142-146	2	6
22	Discrete Mode Lasers for Applications in Access Networks 2007 ,		1
21	System-Performance Analysis of Optimized Gain-Switched Pulse Source Employed in 40- and 80-Gb/s OTDM Systems. <i>Journal of Lightwave Technology</i> , 2007 , 25, 1495-1502	4	6

20	Actively Mode-locked Multiwavelength Fibre Ring Laser Incorporating a Lyot Filter, Hybrid Gain Medium and Birefringence Compensated LiNbO ₃ Modulator 2007 ,		1
19	Optimized pulse source employing an externally injected gain-switched laser diode in conjunction with a nonlinearly chirped grating. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 255-264	2.8	35
18	Inverse scattering approach to multiwavelength Fabry-Pérot laser design. <i>Physical Review A</i> , 2006 , 74,	2.6	12
17	FROG characterisation of SOA-based wavelength conversion using XPM in conjunction with shifted filtering up to line rates of 80 GHz 2006 ,		3
16	Generation and Characterisation of 40 GHz Picosecond Optical Pulses Generated Using an EAM 2006 ,		2
15	Characterization of wavelength interleaving in radio-over-fiber systems employing WDM/SCM. <i>Optics Communications</i> , 2006 , 260, 144-149	2	3
14	Signal degradation due to output filtering of self-seeded gain-switched pulses exhibiting weak inherent side-mode-suppression ratios. <i>Applied Optics</i> , 2005 , 44, 7867-71	1.7	3
13	Optimized pulse source for 40-Gb/s systems based on a gain-switched laser diode in conjunction with a nonlinearly chirped grating. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 196-198	2.2	6
12	Investigation of pulse pedestal and dynamic chirp formation on picosecond pulses after propagation through an SOA. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1800-1802	2.2	6
11	Some emerging photonic technologies and their device impact: photonic crystals, plasmonics, and electromagnetically induced transparency (Invited Paper) 2005 ,		1
10	Multifunctional operation of a fiber Bragg grating in a WDM/SCM radio over fiber distribution system. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 605-607	2.2	33
9	Self-seeding of a gain-switched integrated dual-laser source for the generation of highly wavelength-tunable picosecond optical pulses. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 629-631	2.2	11
8	Generation of widely tunable picosecond pulses with large SMSR by externally injecting a gain-switched dual laser source. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2344-2346	2.2	8
7	Effects of intermodulation distortion on the performance of a hybrid radio/fiber system employing a self-pulsating laser diode transmitter. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 852-854	2.2	9
6	Improved performance of a hybrid radio/fiber system using a directly modulated laser transmitter with external injection. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 233-235	2.2	32
5	Performance issues associated with WDM optical systems using self-seeded gain switched pulse sources due to mode partition noise effects. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1202-1204	2.2	10
4	Multiple RF carrier distribution in a hybrid radio/fiber system employing a self-pulsating laser diode transmitter. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1599-1601	2.2	13
3	Cross-channel interference due to mode partition noise in WDM optical systems using self-seeded gain-switched pulse sources. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 242-244	2.2	3

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|---|--|-----|----|
| 2 | Optical pulse generation at frequencies up to 20 GHz using external-injection seeding of a gain-switched commercial Fabry-Perot laser. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 1014-1016 | 2.2 | 24 |
| 1 | Effect of side-mode suppression ratio on the performance of self-seeded gain-switched optical pulses in lightwave communications systems. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 1360-1362 | 2.2 | 14 |