

# Pascal Landais

## List of Publications by Citations

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75  
papers

457  
citations

12  
h-index

17  
g-index

113  
ext. papers

594  
ext. citations

2.3  
avg, IF

3.39  
L-index

#	Paper	IF	Citations
75	Phase Correlation and Linewidth Reduction of 40 GHz Self-Pulsation in Distributed Bragg Reflector Semiconductor Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2007</b> , 43, 147-156	2	44
74	Self-pulsating semiconductor lasers: theory and experiment. <i>IEEE Journal of Quantum Electronics</i> , <b>1999</b> , 35, 764-770	2	41
73	Sub-picosecond pulse generation by 40-GHz passively mode-locked quantum-dash 1-mm-long Fabry-Pérot laser diode. <i>Optics Express</i> , <b>2009</b> , 17, 19166-72	3.3	23
72	InP-Based Integrated Optical Pulse Shaper: Demonstration of Chirp Compensation. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 450-453	2.2	20
71	Timing-jitter, optical, and mode-beating linewidths analysis on subpicosecond optical pulses generated by a quantum-dash passively mode-locked semiconductor laser. <i>Optics Letters</i> , <b>2010</b> , 35, 1184-6	3.6	19
70	Modeling and measurement of bistable semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1994</b> , 30, 2507-2515	2	16
69	Performance evaluation of hybrid optical switch architecture for data center networks. <i>Optical Switching and Networking</i> , <b>2016</b> , 21, 1-15	1.6	15
68	Analysis of a narrowband terahertz signal generated by a unitravelling carrier photodiode coupled with a dual-mode semiconductor Fabry-Pérot laser. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 241106	3.4	14
67	Terahertz wave generation from a dc-biased multimode laser. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 081109	3.4	13
66	A theoretical analysis of optical clock extraction using a self-pulsating laser diode. <i>IEEE Journal of Quantum Electronics</i> , <b>1999</b> , 35, 221-227	2	13
65	. <i>IEEE Photonics Technology Letters</i> , <b>1995</b> , 7, 278-280	2.2	13
64	Spectral amplitude and phase measurement of a 40 GHz free-running quantum-dash modelocked laser diode. <i>Optics Express</i> , <b>2011</b> , 19, 13628-35	3.3	12
63	Finite element method analysis of band gap and transmission of two-dimensional metallic photonic crystals at terahertz frequencies. <i>Applied Optics</i> , <b>2013</b> , 52, 7367-75	0.2	11
62	HOSA <b>2015</b> ,		10
61	Investigation on the origin of terahertz waves generated by dc-biased multimode semiconductor lasers at room temperature. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 241110	3.4	10
60	Expansion and phase correlation of a wavelength tunable gain-switched optical frequency comb. <i>Optics Express</i> , <b>2019</b> , 27, 16560-16570	3.3	10
59	Software-Defined Optical Burst Switching for HPC and Cloud Computing Data Centers. <i>Journal of Optical Communications and Networking</i> , <b>2016</b> , 8, 610	4.1	10

58	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> , <b>2017</b> , 9, 1-10	1.8	9
57	Wavelength Tunability of All-Optical Clock-Recovery Based on Quantum-Dash Mode-Locked Laser Diode Under Injection of a 40-Gb/s NRZ Data Stream. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 531-533 <sup>2</sup>		9
56	Experimental Investigation of the Optical Injection Locking Dynamics in Single-Section Quantum-Dash Fabry-Perot Laser Diode for Packet-Based Clock Recovery Applications. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 860-865	4	8
55	Linewidth analysis of 40-GHz passively mode-locked multi-mode semiconductor lasers. <i>Optics Communications</i> , <b>2010</b> , 283, 299-303	2	8
54	Simultaneous Phase Noise Reduction of 30 Comb Lines from a Quantum-Dash Mode-Locked Laser Diode Enabling Coherent Tbit/s Data Transmission <b>2015</b> ,		7
53	Experimental demonstration of optical phase conjugation using counter-propagating dual pumped four-wave mixing in semiconductor optical amplifier. <i>Optics Communications</i> , <b>2016</b> , 369, 106-110	2	7
52	40 GHz mode-beating with 8 Hz linewidth and 64 fs timing jitter from a synchronized mode-locked quantum-dash laser diode. <i>Optics Letters</i> , <b>2011</b> , 36, 3142-4	3	7
51	Method to improve the noise figure and saturation power in multi-contact semiconductor optical amplifiers: simulation and experiment. <i>Optics Express</i> , <b>2013</b> , 21, 7180-95	3.3	6
50	Impact of bias current distribution on the noise figure and power saturation of a multicontact semiconductor optical amplifier. <i>Optics Letters</i> , <b>2011</b> , 36, 2521-3	3	6
49	Performance Assessment of 40 Gb/s Burst Optical Clock Recovery Based on Quantum Dash Laser. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 2221-2224	2.2	5
48	320 Gb/s all-optical clock recovery and time de-multiplexing after transmission enabled by single quantum dash mode-locked laser. <i>Optics Letters</i> , <b>2013</b> , 38, 4805-8	3	5
47	Experimental investigation of harmonic and subharmonic synchronization of 40 GHz mode-locked quantum-dash laser diodes. <i>Optics Letters</i> , <b>2011</b> , 36, 1569-71	3	5
46	Performance analysis of optical burst switching with fast optical switches for data center networks <b>2015</b> ,		4
45	All-optical synchronization of a 40GHz self-pulsating distributed Bragg reflector laser to return-to-zero 10, 20 and 40Gbit/s data streams. <i>Optics Communications</i> , <b>2009</b> , 282, 2053-2058	2	4
44	Investigation of optimum wavelength converter based on nonlinear polarisation rotation in a bulk SOA. <i>IET Optoelectronics</i> , <b>2007</b> , 1, 55-60	1.5	4
43	Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. <i>Optics Letters</i> , <b>2016</b> , 41, 5676-5679	3	4
42	Characterization of a multifunctional active demultiplexer for optical frequency combs. <i>Optics and Laser Technology</i> , <b>2021</b> , 134, 106637	4.2	4
41	320 Gb/s all-optical clock recovery and time demultiplexing enabled by a single Quantum Dash Mode-Locked Laser Fabry-Perot Optical Clock Pulse Generator <b>2013</b> ,		3

40	Experimental Investigation of Polarization Effects in Semiconductor Optical Amplifiers and Implications for All-Optical Switching. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 2977-2985	4	3
39	Polarization dependence of non-linear gain compression factor in semiconductor optical amplifier. <i>Optics Express</i> , <b>2008</b> , 16, 8641-8	3.3	3
38	Linewidth Enhancement Factor of Semiconductor Lasers: Results from Round-Robin Measurements in COST 288 <b>2007</b> ,		3
37	Experimental demonstration of 12.5 GHz wideband chaos in symmetric dual-port EDFL. <i>Applied Optics</i> , <b>2017</b> , 56, 7939-7943	1.7	3
36	Performance analysis of semiconductor optical amplifier as a gate switch <b>2019</b> ,		2
35	A data center network featuring low latency and energy efficiency based on all optical core interconnect <b>2015</b> ,		2
34	Frequency-shift free optical phase conjugation using counter-propagating dual pump four-wave mixing in fiber. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 035503	1.7	2
33	Subharmonic All-Optical Clock Recovery of up to 320 Gb/s Signal Using a Quantum Dash Fabry-Pérot Mode-Locked Laser. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 3127-3134	4	2
32	Estimation of the Performance Improvement of Pre-Amplified PAM4 Systems When Using Multi-Section Semiconductor Optical Amplifiers. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 908	2.6	2
31	Semiconductor optical amplifier-based heterodyning detection for resolving optical terahertz beat-tone signals from passively mode-locked semiconductor lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 081113	3.4	2
30	Noise controlled semiconductor optical amplifier based on lateral cavity laser. <i>Electronics Letters</i> , <b>2010</b> , 46, 1288	1.1	2
29	Round-Robin Measurements of Linewidth Enhancement Factor of Semiconductor Lasers in COST 288 Action <b>2007</b> ,		2
28	. <i>IEEE Journal of Quantum Electronics</i> , <b>1995</b> , 31, 1029-1037	2	2
27	Quantum Dash Mode-Locked Laser based Open-Loop Optical Clock Recovery for 160 Gb/s Transmission System <b>2013</b> ,		2
26	Expansion and phase correlation of gain-switched optical frequency combs through FWM in an SOA <b>2019</b> ,		2
25	Optimum optical frequency comb generation via externally injection of a gain switched VCSEL <b>2019</b> ,		2
24	Extended Kalman Filter For Estimation of Phase Noises and Frequency Offset in 400G PM-16-QAM systems <b>2016</b> ,		2
23	Characterization and Direct Modulation of a Multi-Section PIC Suited for Short Reach Optical Communication Systems. <i>Photonics</i> , <b>2020</b> , 7, 55	2.2	2

22	Mitigation of nonlinear effects through frequency shift free mid-span spectral inversion using counter-propagating dual pumped FWM in fiber. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 105703	1.7	2
21	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> , <b>2018</b> , 20, 045702	1.7	1
20	Performance evaluation of TCP over software-defined optical burst-switched data centre network. <i>Journal of Computational Science</i> , <b>2018</b> , 24, 44-53	3.4	1
19	Integrated frequency combs for flexible optical networks <b>2017</b> ,		1
18	Software-Controlled Next Generation Optical Circuit Switching for HPC and Cloud Computing Datacenters. <i>Electronics (Switzerland)</i> , <b>2015</b> , 4, 909-921	2.6	1
17	Integrated InP based modelocked lasers and pulse shapers <b>2013</b> ,		1
16	Characterization of a multi-electrode bulk-SOA for low NF in-line amplification in passive optical networks <b>2010</b> ,		1
15	Timing jitter and all-optical clock recovery based on a quantum-dash Fabry-Pérot semiconductor laser <b>2010</b> ,		1
14	Improved photonic crystal based 90° bends for THz transmission <b>2010</b> ,		1
13	Short pulse generation with 40 GHz passively-mode locked Q-dashed Fabry-Pérot laser <b>2009</b> ,		1
12	THE USE OF POLARIZATION EFFECTS IN SEMICONDUCTOR OPTICAL AMPLIFIERS TO PERFORM ALL-OPTICAL SIGNAL PROCESSING. <i>Ingeniare</i> , <b>2007</b> , 15,	0.7	1
11	Investigation of polarization dependent gain dynamics in a bulk SOA. <i>Optics Communications</i> , <b>2007</b> , 272, 490-495	2	1
10	Transition time and turn-on jitter of optically triggered bistable lasers incorporating a proton bombarded absorber. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 2615-2617	3.4	1
9	Sub-harmonic injection locking of quantum-dash lasers using spectral enrichment from semiconductor optical amplifiers. <i>Applied Optics</i> , <b>2017</b> , 56, 9913	1.7	1
8	Performance of an injection-locked active demultiplexer for FSR-tunable optical frequency combs <b>2019</b> ,		1
7	Optical Frequency Comb Expansion Using Mutually Injection-Locked Gain-Switched Lasers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7108	2.6	0
6	A novel scheme of cascaded four-wave mixing for phase-sensitive amplification in nonlinear optical fibre. <i>Journal of Modern Optics</i> , <b>2018</b> , 65, 1750-1758	1.1	
5	Compact gain switched optical frequency comb generator for sensing applications. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1289, 012048	0.3	

4	Characterization of 60 GHz Multi Quantum well passively mode-locked laser under optical self-injection locking. <i>Optik</i> , <b>2014</b> , 125, 1517-1521	2.5
3	Characterization of 60 GHz multi quantum well passively mode-locked laser under optical self injection locking. <i>Optik</i> , <b>2013</b> , 124, 1075-1078	2.5
2	THz Waveguide and Bends Based on Metallic Photonic Crystals. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2011</b> , 23-27	0.2
1	Numerical investigation of a feed-forward linewidth reduction scheme using a mode-locked laser model of reduced complexity. <i>Applied Optics</i> , <b>2018</b> , 57, E89-E100	1.7