Pascal Landais

List of Publications by Year
in descending order

113 papers	668 citations	567144 15 h-index	677027 22 g-index
113 all docs	113 docs citations	113 times ranked	535 citing authors

#	Article	IF	Citations
1	Phase Correlation and Linewidth Reduction of 40 GHz Self-Pulsation in Distributed Bragg Reflector Semiconductor Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 147-156.	1.0	58
2	Self-pulsating semiconductor lasers: theory and experiment. IEEE Journal of Quantum Electronics, 1999, 35, 764-770.	1.0	47
3	Sub-picosecond pulse generation by 40-GHz passively mode-locked quantum-dash 1-mm-long Fabry-PÃ©rot laser diode. Optics Express, 2009, 17, 19166.	1.7	30
4	InP-Based Integrated Optical Pulse Shaper: Demonstration of Chirp Compensation. IEEE Photonics Technology Letters, 2013, 25, 450-453.	1.3	28
5	Timing-jitter, optical, and mode-beating linewidths analysis on subpicosecond optical pulses generated by a quantum-dash passively mode-locked semiconductor laser. Optics Letters, 2010, 35, 1184.	1.7	27
6	Finite element method analysis of band gap and transmission of two-dimensional metallic photonic crystals at terahertz frequencies. Applied Optics, 2013, 52, 7367.	2.1	21
7	Expansion and phase correlation of a wavelength tunable gain-switched optical frequency comb. Optics Express, 2019, 27, 16560.	1.7	21
8	Software-Defined Optical Burst Switching for HPC and Cloud Computing Data Centers. Journal of Optical Communications and Networking, 2016, 8, 610.	3.3	20
9	Modeling and measurement of bistable semiconductor lasers. IEEE Journal of Quantum Electronics, 1994, 30, 2507-2515.	1.0	18
10	Terahertz wave generation from a dc-biased multimode laser. Applied Physics Letters, 2008, 92, 081109.	1.5	18
11	HOSA. , 2015, , .		18
12	Performance evaluation of hybrid optical switch architecture for data center networks. Optical Switching and Networking, 2016, 21, 1-15.	1.2	18
13	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. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	18
14	Analysis of a narrowband terahertz signal generated by a unitravelling carrier photodiode coupled with a dual-mode semiconductor Fabryâ€“PÃ©rot laser. Applied Physics Letters, 2010, 96, 241106.	1.5	17
15	Spectral amplitude and phase measurement of a 40 GHz free-running quantum-dash modelocked laser diode. Optics Express, 2011, 19, 13628.	1.7	17
16	Investigation on the origin of terahertz waves generated by dc-biased multimode semiconductor lasers at room temperature. Applied Physics Letters, 2008, 93, .	1.5	16
17	A theoretical analysis of optical clock extraction using a self-pulsating laser diode. IEEE Journal of Quantum Electronics, 1999, 35, 221-227.	1.0	15
18	Self-pulsation in multielectrode distributed feedback lasers. IEEE Photonics Technology Letters, 1995, 7, 278-280.	1.3	14

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19	Linewidth analysis of 40-GHz passively mode-locked multi-mode semiconductor lasers. Optics Communications, 2010, 283, 299-303.	1.0	12
20	Simultaneous Phase Noise Reduction of 30 Comb Lines from a Quantum-Dash Mode-Locked Laser Diode Enabling Coherent Tbit/s Data Transmission. , 2015, , .		12
21	Characterization of a multifunctional active demultiplexer for optical frequency combs. Optics and Laser Technology, 2021, 134, 106637.	2.2	11
22	Impact of bias current distribution on the noise figure and power saturation of a multicontact semiconductor optical amplifier. Optics Letters, 2011, 36, 2521.	1.7	10
23	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. IEEE Photonics Technology Letters, 2011, 23, 531-533.	1.3	10
24	Experimental Investigation of the Optical Injection Locking Dynamics in Single-Section Quantum-Dash Fabry-PÃ©rot Laser Diode for Packet-Based Clock Recovery Applications. Journal of Lightwave Technology, 2013, 31, 860-865.	2.7	10
25	40ÂGHz mode-beating with 8ÂHz linewidth and 64Âfs timing jitter from a synchronized mode-locked quantum-dash laser diode. Optics Letters, 2011, 36, 3142.	1.7	9
26	Simple dispersion estimate for single-section quantum-dash and quantum-dot mode-locked laser diodes. Optics Letters, 2016, 41, 5676.	1.7	9
27	Experimental demonstration of optical phase conjugation using counter-propagating dual pumped four-wave mixing in semiconductor optical amplifier. Optics Communications, 2016, 369, 106-110.	1.0	9
28	Linewidth Enhancement Factor of Semiconductor Lasers: Results from Round-Robin Measurements in COST 288. , 2007, , .		8
29	Investigation of optimum wavelength converter based on nonlinear polarisation rotation in a bulk SOA. IET Optoelectronics, 2007, 1, 55-60.	1.8	8
30	Polarization dependence of non-linear gain compression factor in semiconductor optical amplifier. Optics Express, 2008, 16, 8641.	1.7	7
31	Method to improve the noise figure and saturation power in multi-contact semiconductor optical amplifiers: simulation and experiment. Optics Express, 2013, 21, 7180.	1.7	7
32	Performance analysis of optical burst switching with fast optical switches for data center networks. , 2015, , .		7
33	Performance Assessment of 40 Gb/s Burst Optical Clock Recovery Based on Quantum Dash Laser. IEEE Photonics Technology Letters, 2013, 25, 2221-2224.	1.3	6
34	320â€‰â€‰Gb/s all-optical clock recovery and time de-multiplexing after transmission enabled by single quantum dash mode-locked laser. Optics Letters, 2013, 38, 4805.	1.7	6
35	Frequency-shift free optical phase conjugation using counter-propagating dual pump four-wave mixing in fiber. Journal of Optics (United Kingdom), 2016, 18, 035503.	1.0	6
36	Estimation of the Performance Improvement of Pre-Amplified PAM4 Systems When Using Multi-Section Semiconductor Optical Amplifiers. Applied Sciences (Switzerland), 2017, 7, 908.	1.3	6

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37	Experimental Investigation of Polarization Effects in Semiconductor Optical Amplifiers and Implications for All-Optical Switching. Journal of Lightwave Technology, 2008, 26, 2977-2985.	2.7	5
38	All-optical synchronization of a 40GHz self-pulsating distributed Bragg reflector laser to return-to-zero 10, 20 and 40Gbit/s data streams. Optics Communications, 2009, 282, 2053-2058.	1.0	5
39	Experimental investigation of harmonic and subharmonic synchronization of 40 GHz mode-locked quantum-dash laser diodes. Optics Letters, 2011, 36, 1569.	1.7	5
40	Optical Frequency Comb Expansion Using Mutually Injection-Locked Gain-Switched Lasers. Applied Sciences (Switzerland), 2021, 11, 7108.	1.3	5
41	Analysis of self-pulsation in a distributed Bragg reflector laser based on four-wave mixing. , 2004, 5349, 262.		4
42	Semiconductor optical amplifier-based heterodyning detection for resolving optical terahertz beat-tone signals from passively mode-locked semiconductor lasers. Applied Physics Letters, 2010, 97, 081113.	1.5	4
43	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. , 2013, , .		4
44	Mitigation of nonlinear effects through frequency shift free mid-span spectral inversion using counter-propagating dual pumped FWM in fiber. Journal of Optics (United Kingdom), 2016, 18, 105703.	1.0	4
45	Performance analysis of semiconductor optical amplifier as a gate switch. AIP Conference Proceedings, 2019, , .	0.3	4
46	Experimental demonstration of 125â€‰â€‰GHz wideband chaos in symmetric dual-port EDFRL. Applied Optics, 2017, 56, 7939.	0.9	4
47	Noise controlled semiconductor optical amplifier based on lateral cavity laser. Electronics Letters, 2010, 46, 1288.	0.5	3
48	A data center network featuring low latency and energy efficiency based on all optical core interconnect. , 2015, , .		3
49	Characterization and Direct Modulation of a Multi-Section PIC Suited for Short Reach Optical Communication Systems. Photonics, 2020, 7, 55.	0.9	3
50	Quantum Dash Mode-Locked Laser based Open-Loop Optical Clock Recovery for 160 Gb/s Transmission System. , 2013, , .		3
51	Performance of an injection-locked active demultiplexer for FSR-tunable optical frequency combs. , 2019, , .		3
52	Nonuniform injection current induced unusual chirp behavior of a four-electrode bistable distributed Bragg reflector laser. IEEE Journal of Quantum Electronics, 1995, 31, 1029-1037.	1.0	2
53	Round-Robin Measurements of Linewidth Enhancement Factor of Semiconductor Lasers in COST 288 Action. , 2007, , .		2
54	THE USE OF POLARIZATION EFFECTS IN SEMICONDUCTOR OPTICAL AMPLIFIERS TO PERFORM ALL-OPTICAL SIGNAL PROCESSING. Ingeniare, 2007, 15, .	0.1	2

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55	Characterization of a multi-electrode bulk-SOA for low NF in-line amplification in passive optical networks. , 2010, , .		2
56	Subharmonic All-Optical Clock Recovery of up to 320 Gb/s Signal Using a Quantum Dash Fabryâ€“PÃ©rot Mode-Locked Laser. Journal of Lightwave Technology, 2013, 31, 3127-3134.	2.7	2
57	Performance evaluation of TCP over software-defined optical burst-switched data centre network. Journal of Computational Science, 2018, 24, 44-53.	1.5	2
58	Expansion and phase correlation of gain-switched optical frequency combs through FWM in an SOA. , 2019, , .		2
59	Extended Kalman Filter For Estimation of Phase Noises and Frequency Offset in 400G PM-16-QAM systems. , 2016, , .		2
60	Optimum optical frequency comb generation via externally injection of a gain switched VCSEL. , 2019, , .		2
61	Transition time and turnâ€on jitter of optically triggered bistable lasers incorporating a proton bombarded absorber. Applied Physics Letters, 1993, 63, 2615-2617.	1.5	1
62	Temperature dependence of self-pulsation in narrow-stripe gain-guided compact disk laser diodes. , 1998, , .		1
63	CW-THz Wave Generation Using a Multimode Semiconductor Laser at Room Temperature. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
64	Investigation of polarization dependent gain dynamics in a bulk SOA. Optics Communications, 2007, 272, 490-495.	1.0	1
65	Short pulse generation with 40 GHz passively-mode locked Q-dashed Fabry-Pérot laser. , 2009, , .		1
66	Timing jitter and all-optical clock recovery based on a quantum-dash Fabry-Pérot semiconductor laser. , 2010, , .		1
67	Improved photonic crystal based 90° bends for THz transmission. , 2010, , .		1
68	Short pulse transmission characteristics in multi-contact SOA. , 2012, , .		1
69	Integrated InP based modelocked lasers and pulse shapers. Proceedings of SPIE, 2013, , .	0.8	1
70	Software-Controlled Next Generation Optical Circuit Switching for HPC and Cloud Computing Datacenters. Electronics (Switzerland), 2015, 4, 909-921.	1.8	1
71	Integrated frequency combs for flexible optical networks. , 2017, , .		1
72	Phase sensitive amplifier using frequency-shift free optical phase conjugation for phase-regeneration of DPSK signals. , 2017, , .		1

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73	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. Journal of Optics (United Kingdom), 2018, 20, 045702.	1.0	1
74	Temporal and spectral dependence on polarization of the input signal in a semiconductor optical amplifier. , 2004, , .		1
75	Passively phase-locked multimode semiconductor laser: From millimetre to terahertz wave generation. , 2008, , .		1
76	Mode-Locking Dynamics in a Quantum-Dash Fabry-PÃ©rot Laser Diode for Packet Based Clock Recovery Applications. , 2012, , .		1
77	Sub-harmonic injection locking of quantum-dash lasers using spectral enrichment from semiconductor optical amplifiers. Applied Optics, 2017, 56, 9913.	0.9	1
78	Wavelength conversion using polarization rotation in a bulk semiconductor optical amplifier. , 0, , .		0
79	RF or THz Signals Generated from DC Biased Multimode Lasers. , 2007, , .		0
80	Polarization Dependent Intra-Band Dynamics in Semiconductor Optical Amplifiers. , 2007, , .		0
81	Passively mode-locked semiconductor lasers and their applications. , 2008, , .		0
82	Linewidth study of 40-GHz passively mode-locked multimode semiconductor lasers. , 2009, , .		0
83	Novel design for noise controlled semiconductor optical amplifier. , 2009, , .		0
84	Wave-mixing analysis for THz-signals generation in dc-biased semiconductor optical devices at room temperature. , 2010, , .		0
85	Narrow linewidth terahertz signal generation using a dual-mode semiconductor Fabry-Pérot laser and a uni-travelling carrier photodiode. , 2010, , .		0
86	Analysis of optical THz-signals from mode-locked semiconductor laser by using a semiconductor optical amplifier-based detection scheme. , 2010, , .		0
87	All-optical 40 Gb/s 3R regeneration assisted by clock-extraction based on a passively mode-locked quantum-dash Fabry-Pérot laser. , 2010, , .		0
88	Experimental analysis of harmonic and sub-harmonic synchronization of 40 GHz mode-locked quantum-dash lasers under optical injection. , 2011, , .		0
89	320 GHz time-domain multiplexed pulses from quantum-dash mode-locked semiconductor laser diodes. , 2011, , .		0
90	Heterodyne detection of optical terahertz beat-tones based on semiconductor optical amplifier. , 2011, , .		0

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91	Characteristic switching-on and passive mode-locking times in a quantum-dash Fabry-Pérot laser diode. , 2012, , .		0
92	Characterization of 60 GHz multi quantum well passively mode-locked laser under optical self injection locking. Optik, 2013, 124, 1075-1078.	1.4	0
93	Fabry-Pérot QDash mode-locked laser for sub-harmonic all-optical clock recovery and demultiplexing of 160 and 320 Gb/s RZ coherent signals. , 2013, , .		0
94	Characterization of a 60 GHz passively mode locked quantum well laser with applications for radio over fibre. , 2013, , .		0
95	All optical clock recovery of 40 GHz quantum dash mode-locked laser to return-to-zero 160 Gb/s data stream. , 2013, , .		0
96	Characterization of 60GHz quantum well passively mode-locked Fabry-Perot laser for RoF and WPAN applications. , 2013, , .		0
97	Characterization of 60 GHz Multi Quantum well passively mode-locked laser under optical self-injection locking. Optik, 2014, 125, 1517-1521.	1.4	0
98	Sub-Harmonic Injection-Locking of Quantum Dash Lasers through Spectral Enrichment for All-Optical Clock Recovery. , 2015, , .		0
99	Performance Evaluation of TCP over Optical Burst-Switched Data Center Network. , 2015, , .		0
100	Compensation of nonlinear distortion through frequency shift free mid-span spectral inversion using counter-propagating dual pumped FWM in fiber. , 2016, , .		0
101	A switchable fiber laser based on an all-fiber Fabry-Perot filter. Proceedings of SPIE, 2017, , .	0.8	0
102	Nonlinearity mitigation of DQPSK signal by frequency-shift free spectral inversion using counter-propagating dual pump four-wave mixing in a semiconductor optical amplifier. , 2018, , .		0
103	Multi-Section Semiconductor Optical Amplifiers for Data Centre Networks. , 2018, , .		0
104	Optimum Optical Frequency Combs for Telecommunications and Data Centre Networks. , 2018, , .		0
105	Numerical investigation of a feed-forward linewidth reduction scheme using a mode-locked laser model of reduced complexity. Applied Optics, 2018, 57, E89.	0.9	0
106	A novel scheme of cascaded four-wave mixing for phase-sensitive amplification in nonlinear optical fibre. Journal of Modern Optics, 2018, 65, 1750-1758.	0.6	0
107	Compact gain switched optical frequency comb generator for sensing applications. Journal of Physics: Conference Series, 2019, 1289, 012048.	0.3	0
108	Tunable Active De-Multiplexer for Optical Frequency Combs. , 2019, , .		0

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109	Characterisation of a Novel InP Photonic Integrated Circuits for Direct Modulation Applications. , 2019, , .		0
110	Optical Generation of mmW and THz Signals Using PICs. , 2019, , .		0
111	Multi Data-Rate Synchronization of 40 GHz Mode-Locked Quantum-Dash Lasers Diodes. , 2011, , .		0
112	THz Waveguide and Bends Based on Metallic Photonic Crystals. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 23-27.	0.2	0
113	Expanded Optical Frequency Comb Generation Using a Gain Switched Self-Seeded Passive Feedback Laser. , 2020, , .		0