

Francois Lelarge

List of Publications by Year in descending order

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47
papers

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citations

304743

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36
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47
all docs

47
docs citations

47
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of a heterogeneously integrated III-V/SOI single wavelength tunable laser. Optics Express, 2013, 21, 3784.	3.4	155
2	Hybrid III-V on Silicon Lasers for Photonic Integrated Circuits on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 158-170.	2.9	144
3	High performance mode locking characteristics of single section quantum dash lasers. Optics Express, 2012, 20, 8649.	3.4	120
4	InAs/InP Quantum-Dot Passively Mode-Locked Lasers for 1.55- μ m Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1292-1301.	2.9	95
5	High performance InP-based quantum dash semiconductor mode-locked lasers for optical communications. Bell Labs Technical Journal, 0, 14, 63-84.	0.7	62
6	Quantum Dash Mode-Locked Lasers for Data Centre Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 53-60.	2.9	58
7	Integrated InP Heterodyne Millimeter Wave Transmitter. IEEE Photonics Technology Letters, 2014, 26, 965-968.	2.5	56
8	Separate Error-Free Transmission of Eight Channels at 10 Gb/s Using Comb Generation in a Quantum-Dash-Based Mode-Locked Laser. IEEE Photonics Technology Letters, 2009, 21, 1746-1748.	2.5	46
9	Phase Noise Reduction of a Quantum Dash Mode-Locked Laser in a Millimeter-Wave Coupled Opto-Electronic Oscillator. Journal of Lightwave Technology, 2008, 26, 2789-2794.	4.6	42
10	Quantum-Dash Mode-Locked Laser as a Source for 56-Gb/s DQPSK Modulation in WDM Multicast Applications. IEEE Photonics Technology Letters, 2011, 23, 453-455.	2.5	39
11	Injection-Locking Properties of InAs/InP-Based Mode-Locked Quantum-Dash Lasers at 21 GHz. IEEE Photonics Technology Letters, 2011, 23, 1544-1546.	2.5	39
12	Optical Frequency Comb Generation Using Dual-Mode Injection-Locking of Quantum-Dash Mode-Locked Lasers: Properties and Applications. IEEE Journal of Quantum Electronics, 2012, 48, 1327-1338.	1.9	37
13	A Novel Scheme for Two-Level Stabilization of Semiconductor Mode-Locked Lasers Using Simultaneous Optical Injection and Optical Feedback. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1101208-1101208.	2.9	36
14	Coherent WDM transmission using quantum-dash mode-locked laser diodes as multi-wavelength source and local oscillator. Optics Express, 2019, 27, 31164.	3.4	35
15	High Peak Power, Narrow RF Linewidth Asymmetrical Cladding Quantum-Dash Mode-Locked Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1101008-1101008.	2.9	31
16	Silicon photonics WDM transmitter with single section semiconductor mode-locked laser. Advanced Optical Technologies, 2015, 4, 119-145.	1.7	31
17	Mitigation of relative intensity noise of quantum dash mode-locked lasers for PAM4 based optical interconnects using encoding techniques. Optics Express, 2017, 25, 20.	3.4	31
18	Amplitude and Phase Noise of Frequency Combs Generated by Single-Section InAs/InP Quantum-Dash-Based Passively and Actively Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Comb-based WDM transmission at 10 Tbit/s using a DC-driven quantum-dash mode-locked laser diode. Optics Express, 2019, 27, 31110.	3.4	30
20	Timing jitter from the optical spectrum in semiconductor passively mode locked lasers. Optics Express, 2012, 20, 9151.	3.4	28
21	Stability of Optical Frequency Comb Generated With InAs/InP Quantum-Dash-Based Passive Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2014, 50, 275-280.	1.9	26
22	8-channel WDM silicon photonics transceiver with SOA and semiconductor mode-locked laser. Optics Express, 2018, 26, 25446.	3.4	26
23	Quantum dash based single section mode locked lasers for photonic integrated circuits. Optics Express, 2014, 22, 11254.	3.4	23
24	32QAM WDM transmission at 12 Tbit/s using a quantum-dash mode-locked laser diode (QD-MLLD) with external-cavity feedback. Optics Express, 2020, 28, 23594.	3.4	18
25	Mode coherence measurements across a 15ÂTHz spectral bandwidth of a passively mode-locked quantum dash laser. Optics Letters, 2012, 37, 1499.	3.3	17
26	Silicon Photonics Transmitter with SOA and Semiconductor Mode-Locked Laser. Scientific Reports, 2017, 7, 13857.	3.3	17
27	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. Journal of Lightwave Technology, 2020, 38, 5708-5715.	4.6	15
28	Wavelength Selectable Hybrid IIIâ€“V/Si Laser Fabricated by Wafer Bonding. IEEE Photonics Technology Letters, 2013, 25, 1582-1585.	2.5	12
29	200-Gb/s Baudrate-Pilot-Aided QPSK/Direct Detection With Single-Section Quantum-Well Mode-Locked Laser. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	10
30	Long-Term Frequency Stabilization of 10-GHz Quantum-Dash Passively Mode-Locked Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 46-52.	2.9	9
31	Terahertz-bandwidth coherence measurements of a quantum dash laser in passive and active mode-locking operation. Optics Letters, 2012, 37, 4967.	3.3	8
32	One-Dimensional Nature of InAs/InP Quantum Dashes Revealed by Scanning Tunneling Spectroscopy. Nano Letters, 2015, 15, 4488-4497.	9.1	8
33	Quantum Dash mode-locked laser for millimeter-wave Coupled Opto-Electronic Oscillator. , 2007, , .		7
34	Optimization of a 54.8 GHz coupled opto-electronic oscillator through dispersion compensation of a mode-locked semiconductor laser. , 2008, , .		7
35	Laterally coupled distributed feedback lasers emitting at 2â€“m with quantum dash active region and high-duty-cycle etched semiconductor gratings. Journal of Applied Physics, 2017, 121, .	2.5	6
36	Semiconductor Laser Mode Locking Stabilization With Optical Feedback From a Silicon PIC. Journal of Lightwave Technology, 2019, 37, 3483-3494.	4.6	6

#	ARTICLE	IF	CITATIONS
37	Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. Applied Optics, 2016, 55, 4441.	2.1	5
38	Ultra-fast optical ranging using quantum-dash mode-locked laser diodes. Scientific Reports, 2022, 12, 1076.	3.3	5
39	Millimeter-wave photonic up-conversion based on a 55GHz quantum dashed mode-locked laser. , 2008, , .		4
40	Mode locked InAs/InP Quantum dash based DBR Laser monolithically integrated with a semiconductor optical amplifier. , 2013, , .		4
41	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects. , 2015, , .		3
42	Hybrid III-V/silicon photonic integrated circuits for high bitrates telecommunication applications. , 2017, , .		3
43	Gain and refractive index dynamics in p-doped InAs quantum dash semiconductor optical amplifiers. Applied Physics Letters, 2016, 109, 031102.	3.3	2
44	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. Journal of Lightwave Technology, 2017, 35, 2981-2987.	4.6	2
45	Mode-locked InAs/InP quantum-dash-based DBR laser with monolithically integrated SOA. , 2014, , .		1
46	Bistability of threshold in quantum dashâ€”Inâ€”Gaâ€”As well lasers. IET Optoelectronics, 2014, 8, 94-98.	3.3	1
47	Influence of p-doping on the gain and refractive index dynamics in quantum dash based semiconductor optical amplifiers. Proceedings of SPIE, 2016, , .	0.8	0