

Francois Lelarge

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12146687/publications.pdf>

Version: 2024-02-01

47
papers

1,390
citations

304743

22
h-index

345221

36
g-index

47
all docs

47
docs citations

47
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-fast optical ranging using quantum-dash mode-locked laser diodes. Scientific Reports, 2022, 12, 1076.	3.3	5
2	Mode Locked Laser Phase Noise Reduction Under Optical Feedback for Coherent DWDM Communication. Journal of Lightwave Technology, 2020, 38, 5708-5715.	4.6	15
3	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
4	Semiconductor Laser Mode Locking Stabilization With Optical Feedback From a Silicon PIC. Journal of Lightwave Technology, 2019, 37, 3483-3494.	4.6	6
5	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
6	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
7	8-channel WDM silicon photonics transceiver with SOA and semiconductor mode-locked laser. Optics Express, 2018, 26, 25446.	3.4	26
8	Laterally coupled distributed feedback lasers emitting at 2 μ m with quantum dash active region and high-duty-cycle etched semiconductor gratings. Journal of Applied Physics, 2017, 121, .	2.5	6
9	Hybrid III-V/silicon photonic integrated circuits for high bitrates telecommunication applications. , 2017, , .		3
10	WDM Orthogonal Subcarrier Multiplexing Based on Mode-Locked Lasers. Journal of Lightwave Technology, 2017, 35, 2981-2987.	4.6	2
11	Silicon Photonics Transmitter with SOA and Semiconductor Mode-Locked Laser. Scientific Reports, 2017, 7, 13857.	3.3	17
12	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
13	Gain and refractive index dynamics in p-doped InAs quantum dash semiconductor optical amplifiers. Applied Physics Letters, 2016, 109, 031102.	3.3	2
14	Correlation coefficient measurement of the mode-locked laser tones using four-wave mixing. Applied Optics, 2016, 55, 4441.	2.1	5
15	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
16	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
17	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
18	Silicon photonics WDM transmitter with single section semiconductor mode-locked laser. Advanced Optical Technologies, 2015, 4, 119-145.	1.7	31

#	ARTICLE	IF	CITATIONS
19	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
20	Quantum Dash Passively Mode-Locked Lasers for Tbit/s Data Interconnects. , 2015, , .		3
21	Quantum Dash Mode-Locked Lasers for Data Centre Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 53-60.	2.9	58
22	One-Dimensional Nature of InAs/InP Quantum Dashes Revealed by Scanning Tunneling Spectroscopy. Nano Letters, 2015, 15, 4488-4497.	9.1	8
23	Quantum dash based single section mode locked lasers for photonic integrated circuits. Optics Express, 2014, 22, 11254.	3.4	23
24	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
25	Mode-locked InAs/InP quantum-dash-based DBR laser with monolithically integrated SOA. , 2014, , .		1
26	Bistability of threshold in quantum dashâ€”Inâ€”Gaâ€”well lasers. IET Optoelectronics, 2014, 8, 94-98.	3.3	1
27	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
28	Integrated InP Heterodyne Millimeter Wave Transmitter. IEEE Photonics Technology Letters, 2014, 26, 965-968.	2.5	56
29	Wavelength Selectable Hybrid IIIâ€”V/Si Laser Fabricated by Wafer Bonding. IEEE Photonics Technology Letters, 2013, 25, 1582-1585.	2.5	12
30	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
31	Mode locked InAs/InP Quantum dash based DBR Laser monolithically integrated with a semiconductor optical amplifier. , 2013, , .		4
32	Demonstration of a heterogeneously integrated III-V/SOI single wavelength tunable laser. Optics Express, 2013, 21, 3784.	3.4	155
33	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
34	Mode coherence measurements across a 15Â”Hz spectral bandwidth of a passively mode-locked quantum dash laser. Optics Letters, 2012, 37, 1499.	3.3	17
35	Terahertz-bandwidth coherence measurements of a quantum dash laser in passive and active mode-locking operation. Optics Letters, 2012, 37, 4967.	3.3	8
36	High performance mode locking characteristics of single section quantum dash lasers. Optics Express, 2012, 20, 8649.	3.4	120

#	ARTICLE	IF	CITATIONS
37	Timing jitter from the optical spectrum in semiconductor passively mode locked lasers. Optics Express, 2012, 20, 9151.	3.4	28
38	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
39	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
40	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
41	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
42	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
43	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
44	Optimization of a 54.8 GHz coupled opto-electronic oscillator through dispersion compensation of a mode-locked semiconductor laser. , 2008, , .		7
45	Millimeter-wave photonic up-conversion based on a 55GHz quantum dashed mode-locked laser. , 2008, , .		4
46	Quantum Dash mode-locked laser for millimeter-wave Coupled Opto-Electronic Oscillator. , 2007, , .		7
47	High performance InP-based quantum dash semiconductor mode-locked lasers for optical communications. Bell Labs Technical Journal, 0, 14, 63-84.	0.7	62