Benjamin Lingnau

List of Publications by Year
in descending order

27	494	567281 15	677142 22
papers	citations	h-index	g-index

27	27	27	359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mapping the Stability and Dynamics of Optically Injected Dual State Quantum Dot Lasers. Photonics, 2022, 9, 101.	2.0	2
2	Universal generation of devil's staircases near Hopf bifurcations via modulated forcing of nonlinear systems. Physical Review E, 2020, 102, 030201.	2.1	16
3	Dynamic signatures of mode competition in optically injected high-Î² lasers. New Journal of Physics, 2020, 22, 073052.	2.9	2
4	Laser Dynamics and Delayed Feedback. , 2020, , 1-18.		2
5	Laser Dynamics and Delayed Feedback. , 2020, , 31-47.		1
6	Class-C semiconductor lasers with time-delayed optical feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180124.	3.4	7
7	Mutual coupling and synchronization of optically coupled quantum-dot micropillar lasers at ultra-low light levels. Nature Communications, 2019, 10, 1539.	12.8	25
8	Ultra-Short Pulse Generation in a Three Section Tapered Passively Mode-Locked Quantum-Dot Semiconductor Laser. Scientific Reports, 2019, 9, 1783.	3.3	26
9	Multimode dynamics and modeling of free-running and optically injected Fabry-PÃ©rot quantum-dot lasers. Physical Review A, 2019, 100, .	2.5	4
10	Stochastic polarization switching induced by optical injection in bimodal quantum-dot micropillar lasers. Optics Express, 2019, 27, 28816.	3.4	11
11	Rabi-oscillation-enhanced frequency conversion in quantum-dot semiconductor optical amplifiers. Optical and Quantum Electronics, 2018, 50, 1.	3.3	8
12	Tailoring the mode-switching dynamics in quantum-dot micropillar lasers via time-delayed optical feedback. Optics Express, 2018, 26, 22457.	3.4	17
13	Dynamic phase response and amplitude-phase coupling of self-assembled semiconductor quantum dots. Applied Physics Letters, 2017, 110, 241102.	3.3	8
14	Four-Wave Mixing in Quantum-Dot Semiconductor Optical Amplifiers: A Detailed Analysis of the Nonlinear Effects. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-12.	2.9	16
15	Stability of Optically Injected Twoâ€State Quantumâ€Dot Lasers. Annalen Der Physik, 2017, 529, 1600279.	2.4	15
16	On-chip optoelectronic feedback in a micropillar laser-detector assembly. Optica, 2017, 4, 303.	9.3	16
17	Quantum-Dot Semiconductor Optical Amplifiers. , 2017, , 715-746.		1
18	Strong amplitude-phase coupling in submonolayer quantum dots. Applied Physics Letters, 2016, 109, 201102.	3.3	18

#	Article	IF	Citations
19	Mode-switching induced super-thermal bunching in quantum-dot microlasers. New Journal of Physics, 2016, 18, 063011.	2.9	45
20	Ultrafast gain recovery and large nonlinear optical response in submonolayer quantum dots. Physical Review B, 2016, 94, .	3.2	24
21	Injection Locking of Quantum-Dot Microlasers Operating in the Few-Photon Regime. Physical Review Applied, 2016, 6, .	3.8	18
22	Modulation response of nanolasers: what rate equation approaches miss. Optical and Quantum Electronics, 2016, 48, 1.	3.3	10
23	Nonlinear and Nonequilibrium Dynamics of Quantum-Dot Optoelectronic Devices. Springer Theses, 2015, , .	0.1	26
24	Feedback-induced steady-state light bunching above the lasing threshold. Physical Review A, 2014, 89, .	2.5	25
25	Amplitude-phase coupling and chirp in quantum-dot lasers: influence of charge carrier scattering dynamics. Optics Express, 2014, 22, 4867.	3.4	40
26	Quantum coherence induces pulse shape modification in a semiconductor optical amplifier at room temperature. Nature Communications, 2013, 4, 2953.	12.8	56
27	Failure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>factor in describing dynamical instabilities and chaos in quantum-dot lasers. Physical Review E, 2012, 86, 065201.	2.1	55