

Benjamin Lingnau

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

494
citations

567281

15
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum coherence induces pulse shape modification in a semiconductor optical amplifier at room temperature. <i>Nature Communications</i> , 2013, 4, 2953.	12.8	56
2	Failure of the \hat{I}_{\pm} factor in describing dynamical instabilities and chaos in quantum-dot lasers. <i>Physical Review E</i> , 2012, 86, 065201.	2.1	55
3	Mode-switching induced super-thermal bunching in quantum-dot microlasers. <i>New Journal of Physics</i> , 2016, 18, 063011.	2.9	45
4	Amplitude-phase coupling and chirp in quantum-dot lasers: influence of charge carrier scattering dynamics. <i>Optics Express</i> , 2014, 22, 4867.	3.4	40
5	Nonlinear and Nonequilibrium Dynamics of Quantum-Dot Optoelectronic Devices. Springer Theses, 2015, .	0.1	26
6	Ultra-Short Pulse Generation in a Three Section Tapered Passively Mode-Locked Quantum-Dot Semiconductor Laser. <i>Scientific Reports</i> , 2019, 9, 1783.	3.3	26
7	Feedback-induced steady-state light bunching above the lasing threshold. <i>Physical Review A</i> , 2014, 89, .	2.5	25
8	Mutual coupling and synchronization of optically coupled quantum-dot micropillar lasers at ultra-low light levels. <i>Nature Communications</i> , 2019, 10, 1539.	12.8	25
9	Ultrafast gain recovery and large nonlinear optical response in submonolayer quantum dots. <i>Physical Review B</i> , 2016, 94, .	3.2	24
10	Strong amplitude-phase coupling in submonolayer quantum dots. <i>Applied Physics Letters</i> , 2016, 109, 201102.	3.3	18
11	Injection Locking of Quantum-Dot Microlasers Operating in the Few-Photon Regime. <i>Physical Review Applied</i> , 2016, 6, .	3.8	18
12	Tailoring the mode-switching dynamics in quantum-dot micropillar lasers via time-delayed optical feedback. <i>Optics Express</i> , 2018, 26, 22457.	3.4	17
13	Four-Wave Mixing in Quantum-Dot Semiconductor Optical Amplifiers: A Detailed Analysis of the Nonlinear Effects. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-12.	2.9	16
14	On-chip optoelectronic feedback in a micropillar laser-detector assembly. <i>Optica</i> , 2017, 4, 303.	9.3	16
15	Universal generation of devil's staircases near Hopf bifurcations via modulated forcing of nonlinear systems. <i>Physical Review E</i> , 2020, 102, 030201.	2.1	16
16	Stability of Optically Injected Two-State Quantum-Dot Lasers. <i>Annalen Der Physik</i> , 2017, 529, 1600279.	2.4	15
17	Stochastic polarization switching induced by optical injection in bimodal quantum-dot micropillar lasers. <i>Optics Express</i> , 2019, 27, 28816.	3.4	11
18	Modulation response of nanolasers: what rate equation approaches miss. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Dynamic phase response and amplitude-phase coupling of self-assembled semiconductor quantum dots. <i>Applied Physics Letters</i> , 2017, 110, 241102.	3.3	8
20	Rabi-oscillation-enhanced frequency conversion in quantum-dot semiconductor optical amplifiers. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	8
21	Class-C semiconductor lasers with time-delayed optical feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180124.	3.4	7
22	Multimode dynamics and modeling of free-running and optically injected Fabry-Pérot quantum-dot lasers. <i>Physical Review A</i> , 2019, 100, .	2.5	4
23	Dynamic signatures of mode competition in optically injected high- \hat{I}^2 lasers. <i>New Journal of Physics</i> , 2020, 22, 073052.	2.9	2
24	Laser Dynamics and Delayed Feedback. , 2020, , 1-18.		2
25	Mapping the Stability and Dynamics of Optically Injected Dual State Quantum Dot Lasers. <i>Photonics</i> , 2022, 9, 101.	2.0	2
26	Quantum-Dot Semiconductor Optical Amplifiers. , 2017, , 715-746.		1
27	Laser Dynamics and Delayed Feedback. , 2020, , 31-47.		1