

Mindaugas Radziunas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

1,191
citations

19
h-index

31
g-index

130
ext. papers

1,524
ext. citations

2.2
avg, IF

4.32
L-index

#	Paper	IF	Citations
91	Improving the Modulation Bandwidth in Semiconductor Lasers by Passive Feedback. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 136-142	3.8	91
90	Nonlinear dynamics of semiconductor lasers with active optical feedback. <i>Physical Review E</i> , 2004 , 69, 016206	2.4	72
89	Excitability of a semiconductor laser by a two-mode homoclinic bifurcation. <i>Physical Review Letters</i> , 2002 , 88, 023901	7.4	68
88	40 GHz Mode-Locked Semiconductor Lasers: Theory, Simulations and Experiment. <i>Optical and Quantum Electronics</i> , 2006 , 38, 495-512	2.4	64
87	Impact of gain dispersion on the spatio-temporal dynamics of multisection lasers. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 183-188	2	64
86	Measurement and Simulation of Distributed-Feedback Tapered Master-Oscillator Power Amplifiers. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 609-616	2	54
85	Semiconductor laser under resonant feedback from a Fabry-Perot resonator: Stability of continuous-wave operation. <i>Physical Review E</i> , 2006 , 73, 046205	2.4	36
84	High-frequency pulsations in DFB lasers with amplified feedback. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 1381-1387	2	36
83	Stripe-array diode-laser in an off-axis external cavity: theory and experiment. <i>Optics Express</i> , 2009 , 17, 19599-604	3.3	34
82	Modeling self-pulsating DFB lasers with an integrated phase tuning section. <i>IEEE Journal of Quantum Electronics</i> , 2000 , 36, 1026-1034	2	33
81	Hybrid Mode Locking in Semiconductor Lasers: Simulations, Analysis, and Experiments. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1100208-1100208	3.8	31
80	Well-posedness, smooth dependence and centre manifold reduction for a semilinear hyperbolic system from laser dynamics. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 931-960	2.3	25
79	On Convergence and Stability of the Explicit Difference Method for Solution of Nonlinear Schrödinger Equations. <i>SIAM Journal on Numerical Analysis</i> , 1999 , 36, 1466-1481	2.4	25
78	Beam shaping in spatially modulated broad-area semiconductor amplifiers. <i>Optics Letters</i> , 2012 , 37, 5253-5		24
77	Numerical bifurcation analysis of the traveling wave model of multisection semiconductor lasers. <i>Physica D: Nonlinear Phenomena</i> , 2006 , 213, 98-112	3.3	23
76	Modeling of mode control and noise in self-pulsating PhaseCOMB lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 857-864	3.8	22
75	Pulse Broadening in Quantum-Dot Mode-Locked Semiconductor Lasers: Simulation, Analysis, and Experiments. <i>IEEE Journal of Quantum Electronics</i> , 2011 , 47, 935-943	2	21

74	Synchronization properties of two coupled multisection semiconductor lasers emitting chaotic light. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2135-2137	2.2	20
73	Intrinsic beam shaping mechanism in spatially modulated broad area semiconductor amplifiers. <i>Applied Physics Letters</i> , 2013 , 103, 132101	3.4	19
72	Quantum dash based single section mode locked lasers for photonic integrated circuits. <i>Optics Express</i> , 2014 , 22, 11254-66	3.3	19
71	Mode transitions in distributed Bragg reflector semiconductor lasers: experiments, simulations and analysis. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 105401	1.3	19
70	NUMERICAL ALGORITHMS FOR SIMULATION OF MULTISECTION LASERS BY USING TRAVELING WAVE MODEL. <i>Mathematical Modelling and Analysis</i> , 2008 , 13, 327-348	1.3	17
69	Chaotic soliton walk in periodically modulated media. <i>Physical Review E</i> , 2008 , 77, 065201	2.4	17
68	Semiconductor mode-locked lasers with coherent dual-mode optical injection: simulations, analysis, and experiment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 351	1.7	17
67	Influence of nonlinear effects on the characteristics of pulsed high-power broad-area distributed Bragg reflector lasers. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	16
66	Impact of longitudinal refractive index change on the near-field width of high-power broad-area diode lasers. <i>Applied Physics Letters</i> , 2017 , 110, 263504	3.4	15
65	Stabilization of flat-mirror vertical-external-cavity surface-emitting lasers by spatiotemporal modulation of the pump profile. <i>Physical Review A</i> , 2015 , 92,	2.6	15
64	EFFECTIVE NUMERICAL ALGORITHM FOR SIMULATIONS OF BEAM STABILIZATION IN BROAD AREA SEMICONDUCTOR LASERS AND AMPLIFIERS. <i>Mathematical Modelling and Analysis</i> , 2014 , 19, 627-646	1.3	15
63	Spatial locking in broad-area semiconductor lasers. <i>Europhysics Letters</i> , 2011 , 95, 14002	1.6	14
62	EFFECTIVE NUMERICAL INTEGRATION OF TRAVELING WAVE MODEL FOR EDGE-EMITTING BROAD-AREA SEMICONDUCTOR LASERS AND AMPLIFIERS. <i>Mathematical Modelling and Analysis</i> , 2010 , 15, 409-430	1.3	14
61	Experimental investigations on the suppression of Q switching in monolithic 40GHz mode-locked semiconductor lasers. <i>Applied Physics Letters</i> , 2006 , 88, 221104	3.4	14
60	Multisection Lasers: Longitudinal Modes and their Dynamics 2005 , 121-150		14
59	Strong pulse asymmetry in quantum-dot mode-locked semiconductor lasers. <i>Applied Physics Letters</i> , 2011 , 98, 031104	3.4	13
58	Study of Microintegrated External-Cavity Diode Lasers: Simulations, Analysis, and Experiments. <i>IEEE Journal of Quantum Electronics</i> , 2015 , 51, 1-8	2	12
57	Numerical Algorithms for Schrödinger Equation with Artificial Boundary Conditions. <i>Numerical Functional Analysis and Optimization</i> , 2009 , 30, 903-923	1	12

56	Comparison of Split Step Solvers for Multidimensional Schrödinger Problems. <i>Computational Methods in Applied Mathematics</i> , 2013 , 13, 237-250	1.2	10
55	Far-field narrowing in spatially modulated broad-area edge-emitting semiconductor amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 993	1.7	9
54	Mode transitions in distributed-feedback tapered master-oscillator power-amplifier: theory and experiments. <i>Optical and Quantum Electronics</i> , 2008 , 40, 1103-1109	2.4	9
53	Modeling and simulations of broad-area edge-emitting semiconductor devices. <i>International Journal of High Performance Computing Applications</i> , 2018 , 32, 512-522	1.8	8
52	Semiconductor ring laser with filtered optical feedback: traveling wave description and experimental validation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 380	1.7	8
51	Numerical methods for a class of generalized nonlinear schrödinger equations. <i>Kinetic and Related Models</i> , 2015 , 8, 215-234	2.4	8
50	Excitability of chaotic transients in a semiconductor laser. <i>Europhysics Letters</i> , 2007 , 79, 30004	1.6	7
49	Excitability of lasers with integrated dispersive reflector 2001 , 4283, 347		7
48	Traveling Wave Modeling of Nonlinear Dynamics in Multisection Laser Diodes 2017 , 153-182		7
47	Traveling Wave Analysis of Non-Thermal Far-Field Blooming in High-Power Broad-Area Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-7	2	6
46	Numerical methods for accurate description of ultrashort pulses in optical fibers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 67, 391-402	3.7	6
45	Time-Dependent Simulation of Thermal Lensing in High-Power Broad-Area Semiconductor Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-10	3.8	6
44	Efficient coupling of the inhomogeneous current spreading model to the dynamic electro-optical solver for broad-area edge-emitting semiconductor devices. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	6
43	Improving the stability of distributed-feedback tapered master-oscillator power-amplifiers. <i>Optical and Quantum Electronics</i> , 2009 , 41, 531-537	2.4	6
42	Modeling of current spreading in high-power broad-area lasers and its impact on the lateral far field divergence 2018 ,		6
41	Efficient coupling of dynamic electro-optical and heat-transport models for high-power broad-area semiconductor lasers. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	4
40	Dynamics of multisection DFB semiconductor laser: traveling wave and mode approximation models 2002 , 4646, 27		4
39	DYNAMICS OF MULTISECTION SEMICONDUCTOR LASERS. <i>Mathematical Modelling and Analysis</i> , 2005 , 9, 51-66	1.3	4

38	Improving the spectral performance of extended cavity diode lasers using angled-facet laser diode chips. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	3
37	Numerical simulation of the amplification of picosecond laser pulses in tapered semiconductor amplifiers and comparison with experimental results. <i>Optics Communications</i> , 2012 , 285, 2897-2904	2	3
36	Dynamic simulation of high brightness semiconductor lasers 2008 ,		3
35	External cavity modes in Lang-Kobayashi and traveling wave models 2006 ,		3
34	On convergence and stability of difference schemes for nonlinear schrödinger type equations. <i>Lithuanian Mathematical Journal</i> , 1996 , 36, 178-194	0.5	3
33	THE STABILITY CONDITIONS OF FINITE DIFFERENCE SCHEMES FOR SCHRÖDINGER, KURAMOTO-TSZUKI AND HEAT EQUATIONS. <i>Mathematical Modelling and Analysis</i> , 1998 , 3, 177-194	1.3	3
32	New multi-mode delay differential equation model for lasers with optical feedback. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	3
31	Simulation and design of a compact GaAs based tunable dual-wavelength diode laser system. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	2
30	Chirped photonic crystal for spatially filtered optical feedback to a broad-area laser. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 095804	1.7	2
29	Traveling wave modeling, simulation, and analysis of quantum-dot mode-locked semiconductor lasers 2010 ,		2
28	High-brightness emission from stripe-array broad area diode lasers operated in off-axis external cavities 2010 ,		2
27	Spatial "rocking" for improving the spatial quality of the beam of broad area semiconductor lasers 2012 ,		2
26	Traveling wave modeling of semiconductor ring lasers 2008 ,		2
25	Mutually injecting semiconductor lasers: simulations for short and zero delay 2004 , 5452, 63		2
24	Bifurcations of a DFB laser with short optical feedback: numerical experiment 2003 ,		2
23	Detuned grating multi-section-RW-DFB-lasers for high speed optical signal processing		2
22	Traveling wave model-based analysis of tapered broad-area lasers 2020 ,		2
21	Study of wavelength switching time in tunable semiconductor micro-ring lasers: experiment and travelling wave description. <i>OSA Continuum</i> , 2018 , 1, 1226	1.4	2

20	Mode competition in broad-ridge-waveguide lasers. <i>Semiconductor Science and Technology</i> , 2021 , 36, 015014	1.8	2
19	Semiconductor Laser Linewidth Theory Revisited. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6004	2.6	2
18	Parallel Numerical Algorithm for the Traveling Wave Model. <i>Springer Optimization and Its Applications</i> , 2009 , 237-251	0.4	2
17	Numerical and experimental investigations of micro-integrated external cavity diode lasers. <i>Optical and Quantum Electronics</i> , 2015 , 47, 1459-1464	2.4	1
16	Longitudinal modes of multisection edge-emitting and ring semiconductor lasers. <i>Optical and Quantum Electronics</i> , 2015 , 47, 1319-1325	2.4	1
15	Modeling and Simulations of Edge-Emitting Broad-Area Semiconductor Lasers and Amplifiers. <i>Lecture Notes in Computer Science</i> , 2016 , 269-276	0.9	1
14	Modeling and Simulations of Beam Stabilization in Edge-Emitting Broad Area Semiconductor Devices. <i>Lecture Notes in Computer Science</i> , 2014 , 332-342	0.9	1
13	Spatial Locking in broad emission area semiconductor lasers 2011 ,		1
12	Improving the stability of distributed-feedback tapered master-oscillator power-amplifiers 2009 ,		1
11	Optical switching of clockwise/anti-clockwise lasing in bus coupled microrings		1
10	The Convergence and Stability of Splitting Finite-Difference Schemes for Nonlinear Evolutionary Equations. <i>Lithuanian Mathematical Journal</i> , 2005 , 45, 334-352	0.5	1
9	Numerical study of optical feedback coherence in semiconductor laser dynamics. <i>Optics Letters</i> , 2019 , 44, 4207-4210	3	1
8	Stabilization of Broad Area Semiconductor Amplifiers by Spatially Modulated Potentials. <i>Springer Proceedings in Physics</i> , 2016 , 139-151	0.2	1
7	Suppression of modulation instability in pump modulated flat-mirror VECSELs 2016 ,		1
6	Modeling and Simulation of High-Power Broad-Area Semiconductor Lasers with Optical Feedback from Different External Cavities 2018 ,		1
5	Beam-combining scheme of high-power broad-area semiconductor lasers with Lyot-filtered reinjection: modeling, simulations, and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1721	1.7	0
4	Investigation of red-emitting distributed Bragg reflector lasers by means of numerical simulations. <i>IET Optoelectronics</i> , 2018 , 12, 228-232	1.5	0
3	Spatially modulated broad-area lasers for narrow lateral far-field divergence. <i>Optics Express</i> , 2021 , 29, 25133-25141	3.3	0

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| 2 | Additive splitting methods for parallel solutions of evolution problems. <i>Journal of Computational Physics</i> , 2021 , 436, 110320 | 4.1 | o |
| 1 | Stability and convergence of Dufort-Frankel-type difference schemes for a nonlinear Schrödinger-type equation. <i>Lithuanian Mathematical Journal</i> , 1997 , 37, 249-263 | 0.5 | |