

Andrei G Vladimirov

List of Publications by Year in descending order

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144
papers

3,162
citations

117453

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145
all docs

145
docs citations

145
times ranked

1164
citing authors

#	ARTICLE	IF	CITATIONS
1	Short- and long-range temporal cavity soliton interaction in delay models of mode-locked lasers. Physical Review E, 2022, 105, 044207.	0.8	4
2	Dissipative soliton interaction in Kerr resonators with high-order dispersion. Physical Review A, 2021, 103, .	1.0	13
3	Generalized Haus master equation model for mode-locked class- B lasers. Physical Review E, 2021, 104, 014215.	0.8	8
4	Delay-differential-equation model for mode-locked lasers based on nonlinear optical and amplifying loop mirrors. Physical Review A, 2021, 104, .	1.0	5
5	Interaction between vegetation patches and gaps: A self-organized response to water scarcity. Physica D: Nonlinear Phenomena, 2020, 414, 132708.	1.3	8
6	Bifurcation structure of a swept-source laser. Physical Review E, 2020, 101, 012212.	0.8	3
7	Temporal cavity solitons in a delayed model of a dispersive cavity ring laser. Mathematical Modelling of Natural Phenomena, 2020, 15, 47.	0.9	9
8	Turbulent coherent structures in a long cavity semiconductor laser near the lasing threshold. Optics Letters, 2020, 45, 4903.	1.7	5
9	Orthogonally polarized frequency combs in a mode-locked VECSEL. Optics Letters, 2020, 45, 252.	1.7	4
10	Turn on transient in a long cavity laser. , 2020, , .		0
11	Stability of a long cavity laser. , 2020, , .		0
12	Turbulent coherent structures in a long cavity semiconductor laser near the lasing threshold: publisher's note. Optics Letters, 2020, 45, 5500.	1.7	0
13	Pulsed Operation in a Swept Laser with Feedback. , 2020, , .		1
14	Dynamics of a class- A nonlinear mirror mode-locked laser. Physical Review E, 2019, 100, 012216.	0.8	7
15	Complex Dynamics of Long Cavity Lasers. , 2019, , .		0
16	Dynamics of an inhomogeneously broadened passively mode-locked laser. European Physical Journal B, 2019, 92, 1.	0.6	2
17	Dark Pulses in a Long Ring Laser. , 2019, , .		0
18	Periodic pulsating dynamics of slow-fast delayed systems with a period close to the delay. European Journal of Applied Mathematics, 2019, 30, 39-62.	1.4	0

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19	Convective Nozaki-Bekki holes in a long cavity OCT laser. <i>Optics Express</i> , 2019, 27, 16395.	1.7	12
20	Tunable Kerr frequency combs and temporal localized states in time-delayed Gires-Tournois interferometers. <i>Optics Letters</i> , 2019, 44, 4925.	1.7	17
21	Analysis of Temporal Dissipative Solitons in a Delayed Model of a Ring Semiconductor Laser. <i>Trends in Mathematics</i> , 2019, , 7-12.	0.1	0
22	Stable and unstable Nozaki-Bekki holes in a long laser. , 2019, , .		0
23	Saturation effects in nonlinear loop mirror lasers: square wave operation. , 2019, , .		0
24	Effect of Cherenkov radiation on localized-state interaction. <i>Physical Review A</i> , 2018, 97, .	1.0	38
25	Light bullets in a time-delay model of a wide-aperture mode-locked semiconductor laser. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170372.	1.6	9
26	Theoretical study of mode-locked lasers with nonlinear loop mirrors. , 2018, , .		1
27	Bound Pulse Trains in Arrays of Coupled Spatially Extended Dynamical Systems. <i>Physical Review Letters</i> , 2017, 119, 163901.	2.9	13
28	Delayed feedback control of self-mobile cavity solitons in a wide-aperture laser with a saturable absorber. <i>Chaos</i> , 2017, 27, 114304.	1.0	5
29	Dispersive Time-Delay Dynamical Systems. <i>Physical Review Letters</i> , 2017, 118, 193901.	2.9	33
30	Effect of Cherenkov radiation on the interaction of temporal dissipative solitons in a driven cavity with high order dispersion. , 2017, , .		0
31	Distributed delay differential model of a multimode semiconductor laser. , 2017, , .		0
32	Delay differential models in multimode laser dynamics: taking chromatic dispersion into account. , 2016, , .		2
33	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.	0.9	23
34	Interaction of spatial and temporal cavity solitons in mode-locked lasers and passive cavities. , 2016, , .		0
35	Modulational instability and zigzagging of dissipative solitons induced by delayed feedback. <i>Physical Review A</i> , 2016, 93, .	1.0	11
36	Impact of time-delayed feedback on spatiotemporal dynamics in the Lugiato-Lefever model. <i>Physical Review A</i> , 2016, 93, .	1.0	15

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37	Coherence properties of fast frequency swept lasers revealed via full electric field reconstruction. Proceedings of SPIE, 2016, , .	0.8	0
38	Timing jitter of passively-mode-locked semiconductor lasers subject to optical feedback: A semi-analytic approach. Physical Review A, 2015, 92, .	1.0	36
39	Phase and frequency dynamics of a short cavity swept-source OCT laser. , 2015, , .		0
40	Localized Structures in Broad Area VCSELs: Experiments and Delay-Induced Motion. Springer Proceedings in Physics, 2015, , 417-437.	0.1	0
41	Pulse repetition-frequency multiplication in a coupled cavity passively mode-locked semiconductor lasers. Applied Physics B: Lasers and Optics, 2015, 118, 539-548.	1.1	17
42	Multi-stability and polariton solitons in microcavity wires. Optics Letters, 2015, 40, 1787.	1.7	14
43	Phase evolution and instantaneous linewidth of a Fourier domain mode locked laser. , 2015, , .		0
44	Phase and frequency dynamics of Fourier domain mode locked OCT lasers. , 2015, , .		0
45	Dynamics of a short cavity swept source OCT laser. Optics Express, 2014, 22, 18177.	1.7	36
46	Theoretical analysis of passively mode-locked inhomogeneously broadened lasers. , 2014, , .		1
47	Cavity solitons in vertical-cavity surface-emitting lasers. , 2014, , .		1
48	Stability of Plane Wave Solutions in Complex Ginzburg–Landau Equation with Delayed Feedback. SIAM Journal on Applied Dynamical Systems, 2014, 13, 986-1009.	0.7	12
49	Effect of dynamical instability on timing jitter in passively mode-locked quantum-dot lasers. Optics Letters, 2014, 39, 6815.	1.7	18
50	Localized structures in dissipative media: from optics to plant ecology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140101.	1.6	96
51	Modeling of multimode laser dynamics by means of delay differential equations. , 2014, , .		1
52	Cavity solitons in vertical-cavity surface-emitting lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140013.	1.6	18
53	Bistability and hysteresis in an optically injected two-section semiconductor laser. Physical Review E, 2014, 89, 052903.	0.8	13
54	Dynamics of Fourier domain mode-locked lasers. Optics Express, 2013, 21, 19240.	1.7	66

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55	Hybrid Mode Locking in Semiconductor Lasers: Simulations, Analysis, and Experiments. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1100208-1100208.	1.9	41
56	Delayed feedback control of self-mobile cavity solitons. Physical Review A, 2013, 88, .	1.0	32
57	Delay feedback induces drift of multipeaks cavity solitons in VCSEL devices. , 2013, , .		0
58	Theoretical analysis of timing jitter in two-section passively mode-locked semiconductor lasers. , 2013, , .		0
59	Delay induced instabilities of cavity solitons in passive and active laser systems. , 2013, , .		0
60	Dynamical regimes of a multistripe laser array with external off-axis feedback. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1606.	0.9	11
61	Delay induces motion of multippeak localized structures in cavity semiconductors. , 2012, , .		3
62	Bistable regimes in an optically injected mode-locked laser. Optics Express, 2012, 20, 25572.	1.7	9
63	Delay-induced dynamics and jitter reduction of passively mode-locked semiconductor lasers subject to optical feedback. New Journal of Physics, 2012, 14, 113033.	1.2	83
64	Theoretical analysis of a multi-stripe laser array with external off-axis feedback. , 2012, , .		3
65	Long-Range Interaction and Synchronization of Oscillating Dissipative Solitons. Physical Review Letters, 2012, 108, 263906.	2.9	68
66	Delay feedback induces a spontaneous motion of two-dimensional cavity solitons in driven semiconductor microcavities. Physical Review A, 2012, 86, .	1.0	31
67	Theoretical Investigation of Striped and Non-Striped Broad Area Lasers With Off-Axis Feedback. IEEE Journal of Quantum Electronics, 2012, 48, 353-360.	1.0	15
68	Strong asymmetry of mode-locking pulses in quantum-dot semiconductor lasers. , 2011, , .		0
69	Optically injected mode-locked laser. Physical Review E, 2011, 83, 066202.	0.8	35
70	Synchronization of interacting temporal cavity oscillons. , 2011, , .		0
71	Pulse Broadening in Quantum-Dot Mode-Locked Semiconductor Lasers: Simulation, Analysis, and Experiments. IEEE Journal of Quantum Electronics, 2011, 47, 935-943.	1.0	27
72	Rotational symmetry breaking in small-area circular vertical cavity surface emitting lasers. Optics Communications, 2011, 284, 1299-1302.	1.0	5

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73	Relative stability of multipeak localized patterns of cavity solitons. <i>Physical Review A</i> , 2011, 84, .	1.0	37
74	Mobility properties of 2D cavity solitons in systems with delayed feedback. , 2011, , .		0
75	Strong pulse asymmetry in quantum-dot mode-locked semiconductor lasers. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	19
76	Dynamics of couple mode-locked quantum dot semiconductor laser. , 2011, , .		1
77	A model equation for ultrashort optical pulses around the zero dispersion frequency. <i>European Physical Journal D</i> , 2010, 58, 219-226.	0.6	28
78	Spontaneous motion of localized structures and localized patterns induced by delayed feedback. <i>European Physical Journal D</i> , 2010, 59, 59-65.	0.6	13
79	Traveling wave modeling, simulation, and analysis of quantum-dot mode-locked semiconductor lasers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
80	Hybrid mode-locking in a 40 GHz monolithic quantum dot laser. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	45
81	Locking characteristics of a 40-GHz hybrid mode-locked monolithic quantum dot laser. , 2010, , .		5
82	Dynamical regimes in a monolithic passively mode-locked quantum dot laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2102.	0.9	30
83	Hybrid mode-locking in a 40 GHz monolithic quantum dot laser. , 2009, , .		1
84	Strong enhancement of interaction of optical pulses induced by oscillatory instability. , 2009, , .		0
85	Localized Beating between Dynamically Generated Frequencies. <i>Physical Review Letters</i> , 2009, 102, 043905.	2.9	17
86	Traveling wave modeling of mode-locked quantum dot semiconductor lasers. , 2009, , .		0
87	Stripe-array diode-laser in an off-axis external cavity: Theory and experiment. <i>Optics Express</i> , 2009, 17, 19599.	1.7	43
88	Spontaneous Motion of Cavity Solitons Induced by a Delayed Feedback. <i>Physical Review Letters</i> , 2009, 103, 103904.	2.9	85
89	Numerical Study of Dynamical Regimes in a Monolithic Passively Mode-Locked Semiconductor Laser. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 462-468.	1.0	48
90	Solitary-wave solutions for few-cycle optical pulses. <i>Physical Review A</i> , 2008, 77, .	1.0	58

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91	Chaotic soliton walk in periodically modulated media. <i>Physical Review E</i> , 2008, 77, 065201.	0.8	17
92	Localized structures of light in nonlinear devices with intracavity photonic bandgap material. , 2007, , .		0
93	Stability of the modelocking regime in quantum dot laser. , 2007, , .		2
94	Removing modulational instabilities in low dispersion fiber cavities. , 2007, , .		0
95	Control and removal of modulational instabilities in low-dispersion photonic crystal fiber cavities. <i>Optics Letters</i> , 2007, 32, 662.	1.7	53
96	Chaotic bound state of localized structures in the complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2007, 75, 045601.	0.8	32
97	Stability of the mode-locked regime in quantum dot lasers. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	35
98	Model for mode locking in quantum dot lasers. <i>Applied Physics Letters</i> , 2006, 88, 201102.	1.5	69
99	Q-switching instability in a mode-locked semiconductor laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 663.	0.9	26
100	Bragg localized structures in a passive cavity with transverse modulation of the refractive index and the pump. <i>Optics Express</i> , 2006, 14, 1.	1.7	45
101	Modulational instability of discrete solitons in coupled waveguides with group velocity dispersion. <i>Optics Express</i> , 2006, 14, 12347.	1.7	19
102	40ÂGHz Mode-Locked Semiconductor Lasers: Theory, Simulations and Experiment. <i>Optical and Quantum Electronics</i> , 2006, 38, 495-512.	1.5	76
103	Pulse interaction via gain and loss dynamics in passive mode locking. <i>Physica D: Nonlinear Phenomena</i> , 2006, 218, 95-104.	1.3	34
104	Experimental investigations on the suppression of Q switching in monolithic 40GHz mode-locked semiconductor lasers. <i>Applied Physics Letters</i> , 2006, 88, 221104.	1.5	15
105	Model for passive mode locking in semiconductor lasers. <i>Physical Review A</i> , 2005, 72, .	1.0	265
106	A new model for a mode-locked semiconductor laser. <i>Radiophysics and Quantum Electronics</i> , 2004, 47, 769-776.	0.1	42
107	Delay differential equations for mode-locked semiconductor lasers. <i>Optics Letters</i> , 2004, 29, 1221.	1.7	92
108	Interaction and stability of periodic and localized structures in optical bistable systems. <i>IEEE Journal of Quantum Electronics</i> , 2003, 39, 216-226.	1.0	44

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109	Topologically multicharged and multihumped rotating solitons in wide-aperture lasers with a saturable absorber. IEEE Journal of Quantum Electronics, 2003, 39, 197-205.	1.0	51
110	Interaction of periodic and localized structures in two-dimensional passive cavities. , 2003, , .		0
111	Synchronization of weakly stable oscillators and semiconductor laser arrays. Europhysics Letters, 2003, 61, 613-619.	0.7	39
112	Vortex Induced Rotation of Clusters of Localized States in the Complex Ginzburg-Landau Equation. Physical Review Letters, 2002, 89, 044101.	2.9	62
113	Oscillating and rotating states for laser solitons. , 2002, 4751, 471.		1
114	Two-dimensional clusters of solitary structures in driven optical cavities. Physical Review E, 2002, 65, 046606.	0.8	101
115	Curvature Instability in Passive Diffractive Resonators. Physical Review Letters, 2002, 89, 233901.	2.9	15
116	Internal oscillations of solitons in two-dimensional NLS equation with nonlocal nonlinearity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 293, 45-49.	0.9	37
117	Two-dimensional clusters of solitary structures in driven optical cavities. , 2002, , .		0
118	High-order vortices and multi-hump rotating laser solitons. , 2002, , .		0
119	Dynamics of a semiconductor laser array with delayed global coupling. Physical Review E, 2001, 64, 016613.	0.8	43
120	Stable bound states of one-dimensional autosolitons in a bistable laser. Physical Review E, 2001, 63, 056607.	0.8	40
121	Stable autosolitons in dispersive media with saturable gain and absorption. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 274, 111-116.	0.9	7
122	Conditions for the existence of laser bullets. Optics and Spectroscopy (English Translation of Optika) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	18
123	Stability and oscillations of two-dimensional solitons described by the perturbed nonlinear Schrödinger equation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 89, 731-736.	0.2	3
124	Stability of weakly nonparaxial spatial optical solitons in a medium with a Kerr nonlinearity. Journal of Experimental and Theoretical Physics, 2000, 91, 1130-1140.	0.2	6
125	Symmetry breaking and dynamical independence in a multimode laser. Physical Review E, 2000, 62, 6312-6317.	0.8	9
126	Global Coupling with Time Delay in an Array of Semiconductor Lasers. Physical Review Letters, 2000, 85, 3809-3812.	2.9	187

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127	Effect of frequency detunings and finite relaxation rates on laser localized structures. Physical Review E, 2000, 61, 5814-5824.	0.8	93
128	Numerical investigation of laser localized structures. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 101-106.	1.4	57
129	Multidimensional quasiperiodic antiphase dynamics. Physical Review E, 1999, 60, 1616-1629.	0.8	25
130	Properties of the phase space and bifurcations in the complex Lorenz model. Technical Physics, 1998, 43, 877-884.	0.2	5
131	Bifurcation analysis of a bidirectional class B ring laser. Optics Communications, 1998, 149, 67-72.	1.0	12
132	Intracavity second-harmonic generation: The steady-state solutions. Physical Review A, 1998, 58, 3320-3327.	1.0	6
133	Nonlinear dynamics in a single mode three-level laser without inversion. Physical Review E, 1998, 57, 1499-1510.	0.8	8
134	The Complex Lorenz Model: Geometric Structure, Homoclinic Bifurcation and One-Dimensional Map. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 723-729.	0.7	12
135	Analysis of the stability of laser solitons. Quantum Electronics, 1998, 28, 55-57.	0.3	17
136	Phase and amplitude dynamics of the TEM ₁₀ and TEM ₀₁ modes in a class-B laser. Quantum Electronics, 1997, 27, 892-896.	0.3	5
137	Bifurcation analysis of laser autosolitons. Quantum Electronics, 1997, 27, 949-952.	0.3	22
138	Dynamic instabilities in the interaction of transverse modes in a class-B laser. Quantum Electronics, 1997, 27, 887-891.	0.3	2
139	<title>Complex Lorenz equations</title>. , 1997, , .		0
140	<title>Dynamics of transverse modes in a class-B laser</title>. , 1996, 2792, 242.		0
141	Spontaneous phase symmetry breaking due to cavity detuning in a class-A bidirectional ring laser. Optics Communications, 1995, 116, 109-115.	1.0	10
142	Low-intensity chaotic operations of a laser with a saturable absorber. Optics Communications, 1993, 100, 351-360.	1.0	16
143	Localized structures in a passive cavity with refractive index modulation. , 0, , .		0
144	Delay differential equations for passive mode locking. , 0, , .		0