List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Observation of Mode-Locked Spatial Laser Solitons. Physical Review Letters, 2017, 118, 044102.	7.8	25
2	Thick-medium model of transverse pattern formation in optically excited cold two-level atoms with a feedback mirror. Physical Review A, 2017, 96, .	2.5	13
3	Dipole and quadrupole patterns in cold atoms via light induced interactions. , 2017, , .		0
4	Optical pattern formation with a two-level nonlinearity. Physical Review A, 2015, 92, .	2.5	20
5	Quantum Threshold for Optomechanical Self-Structuring in a Bose-Einstein Condensate. Physical Review Letters, 2015, 114, 173903.	7.8	33
6	Nonlinear Optomechanical Patterns and Dissipative Solitons. , 2014, , .		0
7	Optomechanical self-structuring in a cold atomic gas. Nature Photonics, 2014, 8, 321-325.	31.4	87
8	Kinetic Theory for Transverse Optomechanical Instabilities. Physical Review Letters, 2014, 112, 043901.	7.8	24
9	Self-organization in cold atomic gases: a synchronization perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140002.	3.4	8
10	Vortex Solitons and Azimuthons in Vertical-Cavity Surface-Emitting Lasers with Feedback. , 2014, , .		1
11	Optomechanical self-organization in cold atomic gases. , 2013, , .		0
12	Locking of laser cavity solitons trapped by defects in VCSELs. , 2013, , .		0
13	Dissipative solitons in the coupled dynamics of light and cold atoms. Optics Express, 2013, 21, 26144.	3.4	18
14	Spontaneous opto-mechanical structures in cold atomic gases. , 2013, , .		0
15	Adler Synchronization of Spatial Laser Solitons Pinned by Defects. Physical Review Letters, 2012, 108, 213904.	7.8	5
16	Spontaneous optomechanical pattern formation in cold atoms. Physical Review A, 2012, 86, .	2.5	29
17	Frequency and Phase Locking of Laser Cavity Solitons. Progress in Optical Science and Photonics, 2012, , 49-87.	0.5	3
18	Solitons in semiconductor microcavities. Nature Photonics, 2012, 6, 204-204.	31.4	8

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19	From one- to two-dimensional solitons in the Ginzburg-Landau model of lasers with frequency-selective feedback. Physical Review E, 2011, 84, 036213.	2.1	34
20	Soliton lasers stabilized by coupling to a resonant linear system. European Physical Journal D, 2010, 59, 13-21.	1.3	29
21	Switching spatial dissipative solitons in a VCSEL with frequency selective feedback. European Physical Journal D, 2010, 59, 121-131.	1.3	16
22	Self-pulsing dynamics in a cavity soliton laser. Proceedings of SPIE, 2010, , .	0.8	1
23	Vortex solitons in lasers with feedback. Optics Express, 2010, 18, 8859.	3.4	40
24	Drifting instabilities of cavity solitons in vertical-cavity surface-emitting lasers with frequency-selective feedback. Physical Review A, 2009, 80, .	2.5	21
25	Cavity-soliton laser with frequency-selective feedback. Physical Review A, 2009, 80, .	2.5	53
26	Self-localized structures in vertical-cavity surface-emitting lasers with external feedback. Physical Review E, 2008, 78, 016212.	2.1	47
27	All-optical delay line using semiconductor cavity solitons. Applied Physics Letters, 2008, 92, .	3.3	106
28	Enhancement of collective atomic recoil lasing due to pump phase modulation. Physical Review A, 2008, 78, .	2.5	3
29	Realization of a Semiconductor-Based Cavity Soliton Laser. Physical Review Letters, 2008, 100, 013907.	7.8	148
30	Two-Dimensional Front Dynamics and Spatial Solitons in a Nonlinear Optical System. Physical Review Letters, 2007, 99, 153902.	7.8	15
31	Localized traveling waves in vertical-cavity surface-emitting lasers with frequency-selective optical feedback. Physical Review E, 2007, 75, 056208.	2.1	26
32	Proposed Resolution of Theory-Experiment Discrepancy in Homoclinic Snaking. Physical Review Letters, 2007, 99, 104503.	7.8	55
33	Collective Atomic Recoil Lasing with a Partially Coherent Pump. Physical Review Letters, 2007, 99, 253601.	7.8	12
34	On homoclinic snaking in optical systems. Chaos, 2007, 17, 037115.	2.5	23
35	Nonlocal Coupling Resolves Cavity Soliton Theory-Experiment Discrepancy. , 2007, , .		0
36	Computationally determined existence and stability of transverse structures. I. Periodic optical patterns. Physical Review E, 2002, 66, 046605.	2.1	21

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37	Self-propelled cavity solitons in semiconductor microcavities. Physical Review E, 2002, 66, 036607.	2.1	39
38	Computationally determined existence and stability of transverse structures. II. Multipeaked cavity solitons. Physical Review E, 2002, 66, 046606.	2.1	56
39	Self-propelled solitons and moving patterns in a nonlinear resonator. , 2002, , .		0
40	Two-dimensional clusters of solitary structures in driven optical cavities. , 2002, , .		0
41	Characterization, dynamics and stabilization of diffractive domain walls and dark ring cavity solitons in parametric oscillators. Physical Review E, 2001, 63, 066209.	2.1	84
42	Cavity solitons in semiconductor microresonators: Existence, stability, and dynamical properties. Physical Review E, 2000, 62, 8726-8739.	2.1	87
43	Comment on "Stabilization, Selection, and Tracking of Unstable Patterns by Weak Spatial Perturbations― Physical Review Letters, 1999, 82, 2406-2406.	7.8	5
44	Modulational instability of bright solitary waves in incoherently coupled nonlinear SchrĶdinger equations. Physical Review E, 1999, 60, 1019-1029.	2.1	14
45	Diffraction-Induced Polarization Effects in Optical Pattern Formation. Physical Review Letters, 1999, 82, 2087-2090.	7.8	5
46	Elimination of spatiotemporal disorder by Fourier space techniques. Physical Review A, 1998, 58, 2577-2586.	2.5	31
47	Spatial Structures in Semiconductor Devices. Journal of Nonlinear Optical Physics and Materials, 1998, 07, 255-270.	1.8	1
48	Pattern Formation in Passive Nonlinear Optical Systems. Springer Series in Synergetics, 1998, , 69-96.	0.4	0
49	Optical Solitons Carrying Orbital Angular Momentum. Physical Review Letters, 1997, 79, 2450-2453.	7.8	327
50	Spatial Soliton Pixels in Semiconductor Devices. Physical Review Letters, 1997, 79, 2042-2045.	7.8	230
51	Two-dimensional solitons in a Kerr cavity. Journal of Modern Optics, 1996, 43, 1071-1077.	1.3	44
52	Generalized mean-field or master equation for nonlinear cavities with transverse effects. Optics Letters, 1996, 21, 770.	3.3	16
53	Optical bullet holes. Physica Scripta, 1996, T67, 12-16.	2.5	26
54	Pattern formation in an alkali-metal vapor with a feedback mirror. Physical Review A, 1996, 53, 2752-2764.	2.5	37

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55	Optical Bullet Holes: Robust Controllable Localized States of a Nonlinear Cavity. Physical Review Letters, 1996, 76, 1623-1626.	7.8	424
56	Two-dimensional solitons in a Kerr cavity. Journal of Modern Optics, 1996, 43, 1071-1078.	1.3	2
57	A Mean-Field Model For Kerr Lens Mode-Locking. , 1996, , 499-500.		0
58	Pattern Formation in Passive Nonlinear Optical Systems. Springer Series in Synergetics, 1995, , 69-96.	0.4	9
59	Spontaneous Pattern Formation in an Absorptive System. Europhysics Letters, 1994, 26, 521-526.	2.0	106
60	Boundary effects in large-aspect-ratio lasers. Physical Review A, 1994, 50, 4310-4317.	2.5	49
61	Hexagons and squares in a passive nonlinear optical system. Physical Review A, 1994, 50, 3471-3485.	2.5	53
62	Pattern formation and competition in nonlinear optical systems with two-dimensional feedback. Physical Review A, 1994, 49, 2891-2906.	2.5	57
63	Switching dynamics of spatial solitary wave pixels. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 1081.	2.1	59
64	Kerr lens effects in a ring resonator with an aperture: mode locking and unidirectional operation. Optics Letters, 1993, 18, 170.	3.3	27
65	Local and global effects of boundaries on optical-pattern formation in Kerr media. Physical Review A, 1993, 48, 634-641.	2.5	69
66	Hexagonal patterns in optical bistability. Physical Review A, 1992, 46, R3609-R3612.	2.5	100
67	Hexagonal spatial patterns for a Kerr slice with a feedback mirror. Physical Review A, 1992, 46, 537-548.	2.5	201
68	Spontaneous hexagon formation in a nonlinear optical medium with feedback mirror. Physical Review Letters, 1991, 66, 2597-2600.	7.8	234
69	Chaos–predicting the unpredictable BMJ: British Medical Journal, 1991, 303, 1565-1568.	2.3	39
70	Overview of transverse effects in nonlinear-optical systems. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 951.	2.1	191
71	Transverse instabilities due to counterpropagation in Kerr media. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1087.	2.1	88
72	Spatial solitary-wave optical memory. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1328.	2.1	132

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73	Theory of Optical Bistability and Optical Memory. , 1990, , 3-20.		0
74	Transverse Modulational Instabilities in Kerr Media. , 1990, , 859-863.		0
75	Transverse modulational instabilities for counterpropagating beams in Kerr media. Optics Letters, 1988, 13, 1096.	3.3	146
76	Optical Memory and Spatial Chaos. Physical Review Letters, 1988, 61, 329-332.	7.8	61
77	Four-Wave Mixing and Dynamics. NATO ASI Series Series B: Physics, 1988, , 311-320.	0.2	0
78	Instabilities and Routes to Chaos in Passive All-Optical Resonators Containing Molecular Gases. Springer Series in Synergetics, 1987, , 201-236.	0.4	0
79	Instabilities and routes to chaos in passive all-optical resonators containing a molecular gas. Physical Review A, 1986, 33, 2449-2460.	2.5	12
80	Measurement of Transverse Coupling Between Adjacent InSb Optical Switching Elements. Springer Proceedings in Physics, 1986, , 189-192.	0.2	3
81	Evidence for optical bistability in millimeter gas cells. Applied Physics Letters, 1985, 46, 532-534.	3.3	7
82	Theory of the nonlinear Sagnac effect in a fiber-optic gyroscope. Physical Review A, 1985, 32, 2857-2863.	2.5	18
83	Diffusion and diffraction in dispersive optical bistability. Journal of the Optical Society of America B: Optical Physics, 1985, 2, 1005.	2.1	77
84	Carrier diffusion measurements in InSb by the angular dependence of degenerate four-wave mixing. Optics Letters, 1985, 10, 187.	3.3	48
85	Observation of Bifurcation to Chaos in an All-Optical Fabry-Perot Resonator. Physical Review Letters, 1984, 53, 258-261.	7.8	32
86	Observation of optical hysteresis in an allâ€optical passive ring cavity containing molecular gas. Applied Physics Letters, 1984, 44, 716-718.	3.3	9
87	The U.k. Free Electron Laser Project. IEEE Transactions on Nuclear Science, 1983, 30, 3091-3093.	2.0	10
88	Observation of Period Doubling in an All-Optical Resonator Containing NH3Gas. Physical Review Letters, 1983, 51, 562-565.	7.8	42
89	Dispersion in a cw optically pumped FIR laser. Applied Physics B, Photophysics and Laser Chemistry, 1982, 29, 131-134.	1.5	10
90	Bistability. Applied Physics B, Photophysics and Laser Chemistry, 1982, 28, 131-141.	1.5	11

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91	Two-photon light shift and autler-townes splitting in optically-pumped FIR lasers. Journal of Infrared, Millimeter and Terahertz Waves, 1981, 2, 207-214.	0.6	17