

# Thorsten Ackemann

## List of Publications by Year in Descending Order

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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.

150  
papers

2,653  
citations

25  
h-index

44  
g-index

214  
ext. papers

3,085  
ext. citations

3.6  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
150	Spontaneous atomic crystallization via diffractive dephasing in optical cavities. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1919, 012014	0.3	1
149	Multiple Self-Organized Phases and Spatial Solitons in Cold Atoms Mediated by Optical Feedback. <i>Physical Review Letters</i> , <b>2021</b> , 126, 203201	7.4	3
148	Self-Organization in Cold Atoms Mediated by Diffractive Coupling. <i>Atoms</i> , <b>2021</b> , 9, 35	2.1	2
147	Inversion-symmetry breaking in spin patterns by a weak magnetic field. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	3
146	Mapping the dynamical regimes of a SESAM mode-locked VECSEL with a long cavity using time series analysis. <i>Optics Express</i> , <b>2018</b> , 26, 16624-16638	3.3	4
145	Spontaneous light-mediated magnetism in cold atoms. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	10
144	Magnetic phase diagram of light-mediated spin structuring in cold atoms. <i>Optica</i> , <b>2018</b> , 5, 1322	8.6	7
143	Externally-Triggered Activation and Inhibition of Optical Pulsating Regimes in Quantum-Dot Mode-locked Lasers. <i>Scientific Reports</i> , <b>2018</b> , 8, 12515	4.9	15
142	Observation of Mode-Locked Spatial Laser Solitons. <i>Physical Review Letters</i> , <b>2017</b> , 118, 044102	7.4	18
141	Spontaneous Formation of Vector Vortex Beams in Vertical-Cavity Surface-Emitting Lasers with Feedback. <i>Physical Review Letters</i> , <b>2017</b> , 119, 113902	7.4	18
140	Thick-medium model of transverse pattern formation in optically excited cold two-level atoms with a feedback mirror. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	8
139	Polarization Properties of Laser Solitons. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 442	2.6	2
138	Vector cavity solitons in broad area Vertical-Cavity Surface-Emitting Lasers. <i>Scientific Reports</i> , <b>2016</b> , 6, 20428	4.9	14
137	Temperature dependence of spontaneous switch-on and switch-off of laser cavity solitons in vertical-cavity surface-emitting lasers with frequency-selective feedback. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 095110	3	4
136	Quantum threshold for optomechanical self-structuring in a Bose-Einstein condensate. <i>Physical Review Letters</i> , <b>2015</b> , 114, 173903	7.4	23
135	Dynamics and Interaction of Laser Cavity Solitons in Broad-Area Semiconductor Lasers <b>2015</b> , 41-76		2
134	Optical pattern formation with a two-level nonlinearity. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	15

133	Arrest of Domain Coarsening via Antiperiodic Regimes in Delay Systems. <i>Physical Review Letters</i> , <b>2015</b> , 115, 203901	7.4	22
132	On the thermal dependence of the generation of terahertz radiation by photomixing. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 035006	1.8	2
131	Self-organization in cold atomic gases: a synchronization perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372,	3	6
130	Experimental observation of localized structures in medium size VCSELs. <i>Optics Express</i> , <b>2014</b> , 22, 762-773	3.3	16
129	Optomechanical self-structuring in a cold atomic gas. <i>Nature Photonics</i> , <b>2014</b> , 8, 321-325	33.9	59
128	Kinetic theory for transverse optomechanical instabilities. <i>Physical Review Letters</i> , <b>2014</b> , 112, 043901	7.4	18
127	Complexity in pulsed nonlinear laser systems interrogated by permutation entropy. <i>Optics Express</i> , <b>2014</b> , 22, 17840-53	3.3	15
126	Vortex Solitons and Azimuthons in Vertical-Cavity Surface-Emitting Lasers with Feedback <b>2014</b> ,		1
125	Observation of laser vortex solitons in a self-focusing semiconductor laser. <i>Journal of Optics (United Kingdom)</i> , <b>2013</b> , 15, 044011	1.7	18
124	Dissipative solitons in the coupled dynamics of light and cold atoms. <i>Optics Express</i> , <b>2013</b> , 21, 26144-9	3.3	8
123	Diamond heat sinking of terahertz antennas for continuous-wave photomixing. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 123109	2.5	6
122	Spontaneous optomechanical pattern formation in cold atoms. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	19
121	High density InAlAs/GaAlAs quantum dots for non-linear optics in microcavities. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 043107	2.5	4
120	Frequency and Phase Locking of Laser Cavity Solitons. <i>Progress in Optical Science and Photonics</i> , <b>2012</b> , 49-87	0.3	1
119	Solitons in semiconductor microcavities. <i>Nature Photonics</i> , <b>2012</b> , 6, 204-204	33.9	6
118	Analysis of spatial emission structures in vertical-cavity surface-emitting lasers with feedback from a volume Bragg grating. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	5
117	Disorder mapping in VCSELs using frequency-selective feedback. <i>Optics Letters</i> , <b>2012</b> , 37, 1079-81	3	11
116	Adler synchronization of spatial laser solitons pinned by defects. <i>Physical Review Letters</i> , <b>2012</b> , 108, 213904	7.4	4

115	Nonlinear Optics and Saturation Behavior of Quantum Dot Samples Under Continuous Wave Driving <b>2012</b> , 251-295		0
114	Ultrafast spin-induced polarization oscillations with tunable lifetime in vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 151107	3-4	64
113	Birefringence and spin controlled ultrafast polarization oscillations in vertical-cavity surface-emitting lasers <b>2011</b> ,		1
112	Low-frequency self-pulsing in single-section quantum-dot laser diodes and its relation to optothermal pulsations. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	13
111	Self-pulsing dynamics in a cavity soliton laser <b>2010</b> ,		1
110	Optical and electrical properties of stacked binary InAs-GaAs quantum dot structures prepared under Surfactant-mediated growth conditions. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 245, 012072	0-3	1
109	Saturation of absorption and gain in a quantum dot diode with continuous-wave driving. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 231104	3-4	7
108	Polarization properties in the transition from below to above lasing threshold in broad-area vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	5
107	Self pulsing solitons: A base for optically controllable pulse trains in photonic networks? <b>2010</b> ,		1
106	Birefringence controlled room-temperature picosecond spin dynamics close to the threshold of vertical-cavity surface-emitting laser devices. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 191114	3-4	35
105	Vortex solitons in lasers with feedback. <i>Optics Express</i> , <b>2010</b> , 18, 8859-66	3-3	35
104	Compensation of spatial inhomogeneities in a cavity soliton laser using a spatial light modulator. <i>Optics Express</i> , <b>2010</b> , 18, 23121-32	3-3	3
103	Femtosecond synchronously in-well pumped vertical-external-cavity surface-emitting laser. <i>Optics Express</i> , <b>2010</b> , 18, 187-92	3-3	8
102	Time-resolved spectra of a self-pulsing quantum dot laser <b>2010</b> ,		1
101	Bistability and opto-thermal-pulsations in a quantum-dot edge-emitting laser diode. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 245, 012092	0-3	1
100	Ultrafast circular polarization oscillations in spin-polarized vertical-cavity surface-emitting laser devices <b>2010</b> ,		4
99	Switching spatial dissipative solitons in a VCSEL with frequency selective feedback. <i>European Physical Journal D</i> , <b>2010</b> , 59, 121-131	1-3	15
98	Quantum modeling of semiconductor gain materials and vertical-external-cavity surface-emitting laser systems. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 789-808	1-3	7

97	Chapter 6 Fundamentals and Applications of Spatial Dissipative Solitons in Photonic Devices. <i>Advances in Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 323-421	1.7	137
96	Control of cavity solitons and inhomogeneity compensation in VCSELs with frequency selective feedback <b>2009</b> ,		1
95	Control of the spatial emission structure of broad-area vertical-cavity surface-emitting lasers by feedback. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 055101	3	9
94	Length scales and polarization properties of annular standing waves in circular broad-area vertical-cavity surface-emitting lasers. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 97, 397-403	1.9	7
93	Analysis of polarization states of broad-area vertical-cavity surface-emitting lasers below and above threshold <b>2009</b> ,		1
92	. <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 1388-1395	2	32
91	Saturation and self-lensing in self-assembled quantum dots with constant-wave driving. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	3
90	Self-localized structures in vertical-cavity surface-emitting lasers with external feedback. <i>Physical Review E</i> , <b>2008</b> , 78, 016212	2.4	41
89	All-optical delay line using semiconductor cavity solitons. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 011101	3.4	89
88	Control of broad-area vertical-cavity surface emitting laser emission by optically induced photonic crystals. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 151114	3.4	14
87	Characteristics of cavity solitons and drifting excitations in broad-area vertical-cavity surface-emitting lasers with frequency-selective feedback. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	25
86	Optical spin manipulation of electrically pumped vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 041118	3.4	55
85	Realization of a semiconductor-based cavity soliton laser. <i>Physical Review Letters</i> , <b>2008</b> , 100, 013907	7.4	118
84	Analysis and optimization of coupling to external cavities in feedback experiments with vertical-cavity surface-emitting lasers. <i>Optics Communications</i> , <b>2008</b> , 281, 1396-1400	2	
83	Coupling of polarization and spatial degrees of freedom of highly divergent emission in broad-area square vertical-cavity surface-emitting lasers. <i>Physical Review Letters</i> , <b>2008</b> , 100, 213901	7.4	21
82	Nonlinear lensing mechanisms in a cloud of cold atoms. <i>European Physical Journal D</i> , <b>2007</b> , 41, 337-348	1.3	4
81	Tunable, narrow-band light source in the 1.25 $\mu\text{m}$ region based on broad-area quantum dot lasers with feedback. <i>Applied Physics B: Lasers and Optics</i> , <b>2007</b> , 89, 585-588	1.9	13
80	Two-dimensional front dynamics and spatial solitons in a nonlinear optical system. <i>Physical Review Letters</i> , <b>2007</b> , 99, 153902	7.4	14

79	Localized traveling waves in vertical-cavity surface-emitting lasers with frequency-selective optical feedback. <i>Physical Review E</i> , <b>2007</b> , 75, 056208	2.4	22
78	Analysis of bistability conditions between lasing and nonlasing states for a vertical-cavity surface-emitting laser with frequency-selective optical feedback using an envelope approximation. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	6
77	Theoretical-Experimental Study of the Vectorial Modal Properties of Polarization-Stable Multimode Grating VCSELs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1340-1348	3.8	16
76	Bistability conditions between lasing and non-lasing states for vertical-cavity surface-emitting lasers with frequency-selective optical feedback <b>2007</b> ,		1
75	Characteristics of switching dynamics in a semiconductor-based cavity-soliton laser. <i>Optics Express</i> , <b>2007</b> , 15, 16773-80	3.3	14
74	Competition of pattern forming instabilities due to phase front curvature in an optical system. <i>Physical Review E</i> , <b>2006</b> , 73, 016215	2.4	
73	Femtosecond synchronously mode-locked vertical-external cavity surface-emitting laser. <i>Optics Express</i> , <b>2006</b> , 14, 1810-21	3.3	7
72	Operation of an optical in-well-pumped vertical-external-cavity surface-emitting laser. <i>Applied Optics</i> , <b>2006</b> , 45, 7729-35	1.7	12
71	Abrupt turn-on and hysteresis in a VCSEL with frequency-selective optical feedback. <i>Optics Communications</i> , <b>2006</b> , 259, 823-833	2	18
70	Characteristics of bistable localized emission states in broad-area vertical-cavity surface-emitting lasers with frequency-selective feedback. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	19
69	Correlation properties and drift phenomena in the dynamics of vertical-cavity surface-emitting lasers with optical feedback. <i>Optics Express</i> , <b>2005</b> , 13, 2707-15	3.3	16
68	Transverse patterns and length-scale selection in vertical-cavity surface-emitting lasers with a large square aperture. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 945-953	1.9	20
67	On the response of an oscillatory medium to defect generation. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 969-973	1.9	
66	Observation of a discrete family of dissipative solitons in a nonlinear optical system. <i>Physical Review Letters</i> , <b>2005</b> , 95, 143906	7.4	18
65	Vectorial solitons, higher-order localized states and compound states in a single-mirror feedback system <b>2004</b> , ITuH4		
64	Eigenmodes and symmetry selection mechanisms in circular large-aperture vertical-cavity surface-emitting lasers. <i>Physical Review E</i> , <b>2004</b> , 69, 066205	2.4	14
63	Secondary bifurcations of hexagonal patterns in a nonlinear optical system: alkali metal vapor in a single-mirror arrangement. <i>Physical Review E</i> , <b>2004</b> , 69, 036205	2.4	8
62	Selection between hexagonal, square and stripe patterns in a polarization instability: an experimental investigation. <i>Annalen Der Physik</i> , <b>2004</b> , 13, 379-390	2.6	1

61	Experimental and theoretical investigations on elliptically polarized dynamical transition states in the polarization switching of vertical-cavity surface-emitting lasers. <i>Optics Communications</i> , <b>2004</b> , 235, 421-434	2	19
60	Polarization switching to the gain disfavored mode in vertical-cavity surface-emitting lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 97-104	2	36
59	Vectorial solitons and higher-order localized states in a single-mirror feedback system <b>2004</b> ,		1
58	Influence of inhomogeneities on wavelength selection of flower-like patterns in wide-aperture lasers <b>2004</b> ,		1
57	Two-frequency emission and polarization dynamics at lasing threshold in vertical-cavity surface-emitting lasers. <i>Physical Review A</i> , <b>2003</b> , 68,	2.6	48
56	Dynamics and polarization effects in small-area vertical-cavity surface-emitting lasers in free-running mode and with time-delayed feedback <b>2003</b> , 4942, 92		1
55	Nonlinear beam shaping by a cloud of cold Rb atoms. <i>European Physical Journal D</i> , <b>2003</b> , 22, 473-483	1.3	12
54	Optical target and spiral patterns in a single-mirror feedback scheme. <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 76, 191-197	1.9	12
53	Polarization dynamics and low-frequency fluctuations in vertical-cavity surface-emitting lasers subjected to optical feedback. <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 77, 739-746	1.9	19
52	Properties of feedback solitons in a single-mirror experiment. <i>IEEE Journal of Quantum Electronics</i> , <b>2003</b> , 39, 227-237	2	16
51	Secondary bifurcations and transverse standing-wave patterns in anisotropic microcavity lasers close to the first laser threshold. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	8
50	Low-frequency fluctuations and polarization dynamics in vertical-cavity surface-emitting lasers with isotropic feedback. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	36
49	Description and analysis of low-frequency fluctuations in vertical-cavity surface-emitting lasers with isotropic optical feedback by a distant reflector. <i>Physical Review A</i> , <b>2003</b> , 68,	2.6	25
48	Direct measurement of multiple instability regions via a Fourier filtering method in an optical pattern forming system. <i>Physical Review E</i> , <b>2003</b> , 68, 016209	2.4	9
47	Self-organized superlattice patterns with two slightly differing wave numbers. <i>Physical Review E</i> , <b>2003</b> , 67, 025203	2.4	11
46	Eightfold quasipatterns in an optical pattern-forming system. <i>Physical Review E</i> , <b>2002</b> , 66, 046220	2.4	12
45	Robust control of switching of localized structures and its dynamics in a single-mirror feedback scheme. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 707	1.7	17
44	Characteristics of polarization switching in vertical-cavity surface-emitting lasers <b>2001</b> , 4286, 44		7

43	Characteristics and possible applications of localized structures in an optical pattern forming system <b>2001</b> ,		12
42	Optical pattern formation in alkali metal vapors: Mechanisms, phenomena and use. <i>Applied Physics B: Lasers and Optics</i> , <b>2001</b> , 72, 21-34	1.9	59
41	The Gouy phase shift, the average phase lag of Fourier components of Hermite-Gaussian modes and their application to resonance conditions in optical cavities. <i>Optics Communications</i> , <b>2001</b> , 189, 5-14 <sup>2</sup>		20
40	TRANSITION TO SPATIOTEMPORALLY IRREGULAR STATES IN A SINGLE-MIRROR FEEDBACK SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2001</b> , 11, 2789 <sup>3</sup> -2807 <sup>7</sup>		
39	Polarization degrees of freedom in optical pattern forming systems: alkali metal vapour in a single-mirror arrangement. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2001</b> , 3, S124-S132		13
38	Characteristics of polarization switching from the low to the high frequency mode in vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3574-3576	3.4	80
37	Patterns in Broad-Area Microcavities. <i>Physica Status Solidi (B): Basic Research</i> , <b>2000</b> , 221, 133-136	1.3	4
36	Spatial mode structure of bottom-emitting broad-area vertical-cavity surface-emitting lasers. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2000</b> , 2, 406-412		31
35	Pattern formation in the presence of an intrinsic polarization instability. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2000</b> , 2, 386-392		18
34	Magnetic field control over microscopic symmetry properties of an optical pattern-forming system: theory. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2000</b> , 2, 426-431		5
33	Magnetic field control over microscopic symmetry properties of an optical pattern-forming system: experiment. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2000</b> , 2, 421-425		7
32	Stationary and drifting localized structures near a multiple bifurcation point. <i>Physical Review E</i> , <b>2000</b> , 61, 4622-5	2.4	15
31	Interaction of localized structures in an optical pattern-forming system. <i>Physical Review Letters</i> , <b>2000</b> , 85, 748-51	7.4	165
30	Spatial structure of broad-area vertical-cavity regenerative amplifiers. <i>Optics Letters</i> , <b>2000</b> , 25, 814-6	3	28
29	Complex behaviour in optical systems and applications. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2000</b> , 2,		7
28	Bistability and transients in CO <sub>2</sub> laser patterns. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 161-165		4
27	Investigations of pattern forming mechanisms by Fourier filtering: properties of hexagons and the transition to stripes in an anisotropic system. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 70-76		34
26	Spatial solitons in a single-mirror feedback system <b>1999</b> , WC1		1



25	Nonequilateral drifting hexagons in a strongly misaligned single-mirror system. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 58-63		3
24	Interplay of dispersion and absorption in a new optical pattern-forming system. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 166-170		9
23	Modulational instability and beam splitting in the nonlinear light propagation in sodium vapour. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 90-95		3
22	Observing Pattern Dynamics in Nonlinear Optical Systems Using the Video-sampling Method. <i>Chaos, Solitons and Fractals</i> , <b>1999</b> , 10, 675-679	9.3	4
21	Twelffold Quasiperiodic Patterns in a Nonlinear Optical System with Continuous Rotational Symmetry. <i>Physical Review Letters</i> , <b>1999</b> , 82, 4627-4630	7.4	40
20	Polarization dynamics in vertical-cavity surface-emitting lasers with optical feedback: experiment and model. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 2114	1.7	68
19	Self-lensing in sodium vapor: influence of saturation, atomic diffusion and radiation trapping. <i>Optics Communications</i> , <b>1998</b> , 147, 411-428	2	13
18	Fabry-Pérot and ring cavity configurations and transverse optical patterns. <i>Journal of Modern Optics</i> , <b>1998</b> , 45, 1913-1926	1.1	10
17	Fabry-Pérot and ring cavity configurations and transverse optical patterns. <i>Journal of Modern Optics</i> , <b>1998</b> , 45, 1913-1926	1.1	5
16	Polarization patterns in alkaline vapours. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , <b>1998</b> , 10, R23-R36		10
15	Interaction between Hopf and static instabilities in a pattern-forming optical system. <i>Physical Review E</i> , <b>1998</b> , 58, 1654-1661	2.4	14
14	Selection rules for transverse-mode excitation in nonlinear ring and Fabry-Perot resonators. <i>Physical Review A</i> , <b>1998</b> , 57, 4026-4033	2.6	1
13	Winking hexagons. <i>Europhysics Letters</i> , <b>1997</b> , 38, 583-588	1.6	19
12	Subhexagons and ultrahexagons as a result of a secondary instability. <i>Physical Review A</i> , <b>1997</b> , 55, 4538-4544		16
11	Light-shift-induced level crossing and resonatorless optical bistability in sodium vapor. <i>Physical Review A</i> , <b>1997</b> , 56, 2321-2326	2.6	36
10	Drift instability and locking behavior of optical patterns. <i>Physical Review A</i> , <b>1997</b> , 56, R4401-R4404	2.6	20
9	Polarized patterns in sodium vapor with single mirror feedback. <i>Physical Review A</i> , <b>1997</b> , 56, R1709-R1712		25
8	Spontaneous optical patterns in an atomic vapor: observation and simulation. <i>Physica D: Nonlinear Phenomena</i> , <b>1996</b> , 96, 230-241	3.3	25

- 7 Phase singularities via nonlinear beam propagation in sodium vapor. *Optics Communications*, **1995**, 115, 339-346 2 27
- 6 Transition between positive and negative hexagons in optical pattern formation. *Physical Review Letters*, **1995**, 75, 3450-3453 7-4 69
- 5 Non- and nearly hexagonal patterns in sodium vapor generated by single-mirror feedback. *Physical Review A*, **1994**, 50, R4468-R4471 2.6 45
- 4 Transverse structures in a sodium-filled Fabry-Pérot resonator. Experimental results: Symmetries and the role of the incoupling conditions. *Chaos, Solitons and Fractals*, **1994**, 4, 1409-1431 9-3 9
- 3 Transverse structures in a sodium-filled Fabry-Pérot resonator. Interpretation of experimental results. *Chaos, Solitons and Fractals*, **1994**, 4, 1433-1449 9-3 7
- 2 Interplay of linear and nonlinear effects in the formation of optical vortices in a nonlinear resonator. *Physical Review A*, **1993**, 48, 4043-4046 2.6 14
- 1 Dissipative Solitons in Pattern-Forming Nonlinear Optical Systems: Cavity Solitons and Feedback Solitons 55-100