Maxi San Miguel

List of Publications by Year
in descending order

282 papers	11,241 citations	36303 51 h-index	40979 93 g-index
285 all docs	285 docs citations	285 times ranked	4215 citing authors

#	Article	IF	Citations
1	Light-polarization dynamics in surface-emitting semiconductor lasers. Physical Review A, 1995, 52, 1728-1739.	2.5	594
2	Analytical and numerical studies of multiplicative noise. Physical Review A, 1982, 26, 1589-1609.	2.5	569
3	Polarization properties of vertical-cavity surface-emitting lasers. IEEE Journal of Quantum Electronics, 1997, 33, 765-783.	1.9	468
4	Coevolution of dynamical states and interactions in dynamic networks. Physical Review E, 2004, 69, 065102.	2.1	449
5	Homophily, Cultural Drift, and the Co-Evolution of Cultural Groups. Journal of Conflict Resolution, 2007, 51, 905-929.	2.0	341
6	Manifesto of computational social science. European Physical Journal: Special Topics, 2012, 214, 325-346.	2.6	266
7	Cooperation and the Emergence of Role Differentiation in the Dynamics of Social Networks. American Journal of Sociology, 2005, 110, 977-1008.	0.5	230
8	Generic Absorbing Transition in Coevolution Dynamics. Physical Review Letters, 2008, 100, 108702.	7.8	207
9	Voter model dynamics in complex networks: Role of dimensionality, disorder, and degree distribution. Physical Review E, 2005, 72, 036132.	2.1	201
10	Adiabatic elimination for systems of Brownian particles with nonconstant damping coefficients. Journal of Statistical Physics, 1982, 28, 291-305.	1.2	171
11	Nonequilibrium transitions in complex networks: A model of social interaction. Physical Review E, 2003, 67, 026120.	2.1	169
12	Is the Voter Model a Model for Voters?. Physical Review Letters, 2014, 112, 158701.	7.8	162
13	Global culture: A noise-induced transition in finite systems. Physical Review E, 2003, 67, 045101.	2.1	146
14	A measure of individual role in collective dynamics. Scientific Reports, 2012, 2, 292.	3.3	136
15	Conservation laws for the voter model in complex networks. Europhysics Letters, 2005, 69, 228-234.	2.0	131
16	Ordering dynamics with two non-excluding options: bilingualism in language competition. New Journal of Physics, 2006, 8, 308-308.	2.9	129
17	The noisy voter model on complex networks. Scientific Reports, 2016, 6, 24775.	3.3	100
18	Polarization switching in quantum-well vertical-cavity surface-emitting lasers. Optics Letters, 1996, 21, 351.	3.3	97

#	Article	IF	Citations
19	Polarization dynamics of optically pumped VCSELs. IEEE Journal of Quantum Electronics, 1999, 35, 342-351.	1.9	95
20	Stochastic-dynamics characterization of delayed laser threshold instability with swept control parameter. Physical Review A, 1988, 38, 245-251.	2.5	94
21	Path-integral formulation for stochastic processes driven by colored noise. Physical Review A, 1989, 40, 7312-7324.	2.5	93
22	Noise-Sustained Convective Structures in Nonlinear Optics. Physical Review Letters, 1997, 79, 3633-3636.	7.8	92
23	Mechanisms of polarization switching in single-transverse-mode vertical-cavity surface-emitting lasers:?thermal shift and nonlinear semiconductor dynamics. Optics Letters, 1999, 24, 1121.	3.3	92
24	Localized coherence in two interacting populations of social agents. Physica A: Statistical Mechanics and Its Applications, 2014, 399, 24-30.	2.6	92
25	Stochastic Effects in Physical Systems. Nonlinear Phenomena and Complex Systems, 2000, , 35-127.	0.0	92
26	Theory for the early stages of phase separation: The long-range-force limit. Physical Review B, 1985, 31, 3027-3039.	3.2	84
27	Synchronization of Spatiotemporal Chaos: The Regime of Coupled Spatiotemporal Intermittency. Physical Review Letters, 1997, 78, 4379-4382.	7.8	80
28	Relaxation time of processes driven by multiplicative noise. Physical Review A, 1984, 29, 3388-3396.	2.5	79
29	Neighborhood models of minority opinion spreading. European Physical Journal B, 2004, 39, 535-544.	1.5	75
30	Phase Instabilities in the Laser Vector Complex Ginzburg-Landau Equation. Physical Review Letters, 1995, 75, 425-428.	7.8	73
31	Theory for the Transient Statistics of a Dye Laser. Physical Review Letters, 1986, 56, 2473-2476.	7.8	72
32	Binary and Multivariate Stochastic Models of Consensus Formation. Computing in Science and Engineering, 2005, 7, 67-73.	1.2	72
33	Globalization, polarization and cultural drift. Journal of Economic Dynamics and Control, 2005, 29, 321-334.	1.6	70
34	Role of dimensionality in Axelrod's model for the dissemination of culture. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 1-5.	2.6	69
35	Microscopic Abramsâ€“Strogatz model of language competition. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 835-842.	2.6	68
36	Local versus global interactions in nonequilibrium transitions: A model of social dynamics. Physical Review E, 2006, 73, 046119.	2.1	65

#	Article	IF	Citations
37	Influence of sociodemographic characteristics on human mobility. Scientific Reports, 2015, 5, 10075.	3.3	63
38	Comparing and modelling land use organization in cities. Royal Society Open Science, 2015, 2, 150449.	2.4	63
39	Time-scale competition leading to fragmentation and recombination transitions in the coevolution of network and states. Physical Review E, 2007, 76, 046120.	2.1	62
40	Social and strategic imitation: the way to consensus. Scientific Reports, 2012, 2, 686.	3.3	62
41	Monte Carlo Renormalization-Group Study of the Dynamics of an Unstable State. Physical Review Letters, 1985, 54, 1264-1267.	7.8	59
42	Challenges in complex systems science. European Physical Journal: Special Topics, 2012, 214, 245-271.	2.6	59
43	Opinions, Conflicts, and Consensus: Modeling Social Dynamics in a Collaborative Environment. Physical Review Letters, 2013, 110, 088701.	7.8	57
44	Irreducibility of multilayer network dynamics: the case of the voter model. New Journal of Physics, 2016, 18, 023010.	2.9	57
45	External non-white noise and nonequilibrium phase transitions. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1980, 36, 357-364.	1.9	56
46	Polarization and transverse-mode dynamics of gain-guided vertical-cavity surface-emitting lasers. Optics Letters, 1997, 22, 460.	3.3	56
47	Analytical and numerical study of the non-linear noisy voter model on complex networks. Chaos, 2018, 28, 075516.	2.5	56
48	Intensity correlation functions for the colored gain-noise model of dye lasers. Physical Review A, 1990, 42, 6823-6830.	2.5	55
49	Statistics for the transient response of single-mode semiconductor laser gain switching. Physical Review A, 1991, 43, 498-506.	2.5	55
50	Stable Droplets and Growth Laws Close to the Modulational Instability of a Domain Wall. Physical Review Letters, 2001, 87, 194101.	7.8	54
51	Multiphoton multimode polarization entanglement in parametric down-conversion. Physical Review A, 2003, 68, .	2.5	54
52	Theory of nonlinear Gaussian noise. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1981, 43, 361-372.	1.9	53
53	Polarization and transverse-mode selection in quantum-well vertical-cavity surface-emitting lasers: index- and gain-guided devices. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1997, 9, 713-736.	0.9	51
54	The Role of Noise and Initial Conditions in the Asymptotic Solution of a Bounded Confidence, Continuous-Opinion Model. Journal of Statistical Physics, 2013, 151, 131-149.	1.2	51

#	Article	IF	Citations
55	Absorbing and shattered fragmentation transitions in multilayer coevolution. Physical Review E, 2014, 89, 062818.	2.1	51
56	Zealots in the mean-field noisy voter model. Physical Review E, 2018, 97, 012310.	2.1	51
57	Polarization state selection and stability in a laser with a polarization-isotropic resonator; an example of no lasing despite inversion above threshold. Optics Communications, 1995, 117, 344-356.	2.1	50
58	Self-similar domain growth, localized structures, and labyrinthine patterns in vectorial Kerr resonators. Physical Review E, 2000, 61, 2241-2244.	2.1	50
59	Update rules and interevent time distributions: Slow ordering versus no ordering in the voter model. Physical Review E, 2011, 84, 015103.	2.1	50
60	Escape time and state dependent fluctuations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 109, 9-12.	2.1	48
61	Walk-off and pattern selection in optical parametric oscillators. Optics Letters, 1998, 23, 1167.	3.3	48
62	Two-dimensional noise-sustained structures in optical parametric oscillators. Physical Review E, 1998, 58, 3843-3853.	2.1	48
63	Agent based models of language competition: macroscopic descriptions and orderâ€“disorder transitions. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04007.	2.3	48
64	Periodic structures induced by director reorientation in the lyotropic nematic phase of disodium cromoglycateâ€“water. Journal of Chemical Physics, 1985, 83, 288-292.	3.0	47
65	Travelling wave model of a multimode Fabry-Perot laser in free running and external cavity configurations. IEEE Journal of Quantum Electronics, 1996, 32, 553-566.	1.9	47
66	Wound-up phase turbulence in the complex Ginzburg-Landau equation. Physical Review E, 1997, 56, 151-167.	2.1	47
67	Polarization patterns in Kerr media. Physical Review E, 1998, 58, 2992-3007.	2.1	47
68	Self-pulsating semiconductor lasers: theory and experiment. IEEE Journal of Quantum Electronics, 1999, 35, 764-770.	1.9	47
69	MODELING TWO-LANGUAGE COMPETITION DYNAMICS. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250048.	1.4	46
70	Escape times in systems with memory effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 15-18.	2.1	44
71	Relaxation from a marginal state in optical bistability. Physical Review A, 1989, 39, 149-156.	2.5	44
72	Dependence of timing jitter on bias level for single-mode semiconductor lasers under high speed operations. IEEE Journal of Quantum Electronics, 1993, 29, 23-32.	1.9	44

#	Article	IF	Citations
73	Mode control and pattern stabilization in broad-area lasers by optical feedback. Physical Review A, 1996, 54, 5386-5393.	2.5	44
74	Anomalous lifetime distributions and topological traps in ordering dynamics. Europhysics Letters, 2007, 79, 66006.	2.0	44
75	Dye-laser fluctuations: Comparison of colored loss-noise and white gain-noise models. Physical Review A, 1988, 38, 5670-5677.	2.5	43
76	Numerical study of the dynamical aspects of pattern selection in the stochastic Swift-Hohenberg equation in one dimension. Physical Review A, 1991, 44, 1123-1133.	2.5	43
77	Fokker-Planck approximation for N-dimensional nonmarkovian langevin equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 76, 97-100.	2.1	41
78	Colored noise: A perspective from a path-integral formalism. Physical Review A, 1989, 39, 6094-6097.	2.5	41
79	Winding Number Instability in the Phase-Turbulence Regime of the Complex Ginzburg-Landau Equation. Physical Review Letters, 1996, 77, 267-270.	7.8	40
80	Polarization Message Encoding through Vectorial Chaos Synchronization in Vertical-Cavity Surface-Emitting Lasers. Physical Review Letters, 2003, 90, 113901.	7.8	40
81	Intensity correlation function of dye lasers: Short-time behavior. Physical Review A, 1985, 31, 2362-2365.	2.5	38
82	Mean first-passage time of continuous non-Markovian processes driven by colored noise. Physical Review A, 1986, 33, 3399-3403.	2.5	38
83	Analysis of a dye-laser model including quantum noise. Physical Review A, 1988, 37, 450-455.	2.5	38
84	Quantum fluctuations in a continuous vectorial Kerr medium model. Physical Review A, 2000, 62, .	2.5	38
85	Layered social influence promotes multiculturality in the Axelrod model. Scientific Reports, 2017, 7, 1809.	3.3	38
86	External non-white noise: Theory and experiment. Physica A: Statistical Mechanics and Its Applications, 1982, 116, 560-572.	2.6	37
87	Competing contagion processes: Complex contagion triggered by simple contagion. Scientific Reports, 2018, 8, 10422.	3.3	37
88	Cooperation, Adaptation and the Emergence of Leadership. Lecture Notes in Economics and Mathematical Systems, 2001, , 73-86.	0.3	37
89	The Independent and Interactive Effects of Treeâ€Tree Establishment Competition and Fire on Savanna Structure and Dynamics. American Naturalist, 2010, 175, E44-E65.	2.1	36
90	Social imitation versus strategic choice, or consensus versus cooperation, in the networked Prisoner's Dilemma. Physical Review E, 2014, 90, 022810.	2.1	36

#	Article	IF	Citations
91	Theory of spinodal decomposition in relaxational tricritical models. Physical Review B, 1981, 23, 2334-2345.	3.2	35
92	Joint probability distribution of nonmarkovian SDE. European Physical Journal B, 1983, 52, 335-343.	1.5	35
93	Spontaneous ordering against an external field in non-equilibrium systems. New Journal of Physics, 2010, 12, 013010.	2.9	35
94	Bloch domain walls in type II optical parametric oscillators. Optics Letters, 2000, 25, 1454.	3.3	34
95	Competition of simple and complex adoption on interdependent networks. Physical Review E, 2016, 94, 062301.	2.1	34
96	Opinion competition dynamics on multiplex networks. New Journal of Physics, 2017, 19, 123019.	2.9	34
97	Stochastic pair approximation treatment of the noisy voter model. New Journal of Physics, 2018, 20, 103045.	2.9	34
98	Dynamics of FrÃ©edericksz transition in a fluctuating magnetic field. Physical Review A, 1985, 32, 1843-1851.	2.5	33
99	Stochastic Spatiotemporal Intermittency and Noise-Induced Transition to an Absorbing Phase. Physical Review Letters, 2000, 85, 3612-3615.	7.8	33
100	Polarization resolved intensity noise in vertical-cavity surface-emitting lasers. Physical Review A, 2001, 64, .	2.5	33
101	Two-Photon Cavity Solitons in Active Optical Media. Physical Review Letters, 2001, 87, 083902.	7.8	32
102	Threshold Learning Dynamics in Social Networks. PLoS ONE, 2011, 6, e20207.	2.5	32
103	Response and Correlation in Fokker-Planck Dynamics. I. Progress of Theoretical Physics, 1978, 59, 40-54.	2.0	30
104	First-passage time statistics: Processes driven by Poisson noise. Physical Review A, 1987, 36, 5774-5781.	2.5	30
105	Passage-time calculation for the detection of weak signals via the transient dynamics of a laser. Physical Review A, 1990, 41, 5012-5015.	2.5	30
106	Optical feedback on self-pulsating semiconductor lasers. IEEE Journal of Quantum Electronics, 1996, 32, 1191-1202.	1.9	30
107	Numerical study of a Lyapunov functional for the complex Ginzburg-Landau equation. Physica D: Nonlinear Phenomena, 1996, 96, 47-65.	2.8	30
108	Markets, Herding and Response to External Information. PLoS ONE, 2015, 10, e0133287.	2.5	30

#	Article	IF	Citations
109	Passage times for the decay of an unstable state triggered by colored noise. Physical Review A, 1989, 39, 2722-2724.	2.5	29
110	Brownian motion in shear flow. Physica A: Statistical Mechanics and Its Applications, 1979, 99, 357-364.	2.6	28
111	Pattern formation in the presence of walk-off for a type II optical parametric oscillator. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1592.	2.1	28
112	Broad lifetime distributions for ordering dynamics in complex networks. Physical Review E, 2009, 79, 016109.	2.1	28
113	Relaxation in the subcritical pitchfork bifurcation: From critical to Gaussian scaling. Physical Review A, 1991, 43, 5296-5307.	2.5	27
114	Parametric dependence of stochastic frequency variations in the gain switching of a single-mode laser diode. IEEE Journal of Quantum Electronics, 1993, 29, 33-41.	1.9	27
115	Dynamics on networks: competition of temporal and topological correlations. Scientific Reports, 2017, 7, 41627.	3.3	27
116	Fragmentation transitions in a coevolving nonlinear voter model. Scientific Reports, 2017, 7, 12864.	3.3	27
117	Transport properties for random walks in disordered one-dimensional media: Perturbative calculation around the effective-medium approximation. Physical Review B, 1990, 42, 10653-10672.	3.2	26
118	Fluctuations and pattern selection near an Eckhaus instability. Physical Review Letters, 1993, 70, 3576-3579.	7.8	26
119	Transients in multivariable dynamical systems depend on which parameter is switched as illustrated in lasers. Physical Review Letters, 1994, 72, 3510-3513.	7.8	26
120	Frequency dynamics of gain-switched injection-locked semiconductor lasers. IEEE Journal of Quantum Electronics, 1997, 33, 1537-1542.	1.9	26
121	Vector vortices and polarization state of low-order transverse modes in a VCSEL. Optics Communications, 1997, 143, 133-146.	2.1	26
122	Statistics of the transient frequency modulation in the switch-on of a single-mode semiconductor laser. Physical Review A, 1992, 45, 1955-1966.	2.5	25
123	Memory diagram of single-mode semiconductor lasers. IEEE Journal of Quantum Electronics, 1993, 29, 1624-1630.	1.9	25
124	Decay of an unstable state in the presence of multiplicative noise. Physical Review A, 1986, 33, 4360-4366.	2.5	24
125	Theory for relaxation at a subcritical pitchfork bifurcation. Physical Review A, 1990, 41, 1901-1911.	2.5	24
126	Dynamical origins of the community structure of an online multi-layer society. New Journal of Physics, 2016, 18, 083045.	2.9	24

#	Article	IF	Citations
127	Master equation description of external poisson white noise in finite systems. Journal of Statistical Physics, 1985, 40, 669-724.	1.2	23
128	Nonlinear effects in the dynamics of transient pattern formation in nematics. Physical Review A, 1988, 37, 3601-3604.	2.5	23
129	Turn-on jitter of external-cavity semiconductor lasers. IEEE Journal of Quantum Electronics, 1994, 30, 241-248.	1.9	23
130	First-passage distributions for the one-dimensional Fokker-Planck equation. Physical Review E, 2018, 98, .	2.1	23
131	Theory of external two-state Markov noise in the presence of internal fluctuations. Journal of Statistical Physics, 1984, 37, 151-172.	1.2	22
132	Transient patterns in nematic liquid crystals: Domain-wall dynamics. Physical Review A, 1989, 39, 6567-6572.	2.5	22
133	Order parameter description of walk-off effect on pattern selection in degenerate optical parametric oscillators. Physical Review E, 2000, 61, 2133-2136.	2.1	22
134	Conservation laws for voter-like models on random directed networks. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P10024.	2.3	22
135	Diffusion in random chains: Perturbative expansion around the effective-medium approximation. Physical Review B, 1989, 40, 4212-4215.	3.2	21
136	Noise in coevolving networks. Physical Review E, 2015, 92, 032803.	2.1	21
137	Aging-induced continuous phase transition. Physical Review E, 2018, 98, .	2.1	21
138	Some Results in the Description of Systems under the Influence of Dichotomous Noise. Progress of Theoretical Physics, 1983, 69, 1085-1090.	2.0	20
139	Nonmarkovian dynamics of stochastic differential equations with quadratic noise. European Physical Journal B, 1984, 55, 269-282.	1.5	20
140	Mode competition in a Fabry-Perot semiconductor laser: travelling wave model with asymmetric dynamical gain. Optics Communications, 1996, 131, 380-390.	2.1	20
141	Dynamics of Localized Structures in Vectorial Waves. Physical Review Letters, 2000, 85, 744-747.	7.8	20
142	Fluctuations and limit of metastability in a periodically driven unstable system. Physical Review B, 1984, 30, 5228-5238.	3.2	19
143	Macroscopic quantum fluctuations in noise-sustained optical patterns. Physical Review A, 2002, 65, .	2.5	19
144	Polarization patterns and vectorial defects in type-II optical parametric oscillators. Physical Review E, 2002, 65, 036610.	2.1	19

#	Article	IF	Citations
145	Stable droplets and dark-ring cavity solitons in nonlinear optical devices. IEEE Journal of Quantum Electronics, 2003, 39, 238-244.	1.9	19
146	Stochastic Polarization Switching Dynamics in Vertical-Cavity Surface-Emitting Lasers: Theory and Experiment. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 911-917.	2.9	19
147	Viability and Resilience of Languages in Competition. PLoS ONE, 2010, 5, e8681.	2.5	19
148	Learning and coordinating in a multilayer network. Scientific Reports, 2015, 5, 7776.	3.3	19
149	Pair approximation for the noisy threshold<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>q</mml:mi></mml:math>-voter model. Physical Review E, 2020, 101, 052131.	2.1	19
150	Response and Correlation in Fokker-Planck Dynamics. II: Stationary State and Fluctuation Dissipation Theorem. Progress of Theoretical Physics, 1978, 59, 55-63.	2.0	18
151	Positivity requirements on fluctuating parameters. Physica A: Statistical Mechanics and Its Applications, 1987, 142, 532-547.	2.6	18
152	Dynamics of sweeping through an instability: Passage-time statistics for colored noise. Physical Review A, 1989, 40, 6662-6672.	2.5	18
153	Random walk in dynamically disordered chains: Poisson white noise disorder. Journal of Statistical Physics, 1989, 55, 1027-1052.	1.2	18
154	Fluctuations in transverse laser patterns. Physical Review A, 1991, 43, 3862-3876.	2.5	18
155	Non-classical behavior in multimode and disordered transverse structures in OPO. European Physical Journal D, 2003, 22, 461-471.	1.3	18
156	Absorbing phase transition in the coupled dynamics of node and link states in random networks. Scientific Reports, 2019, 9, 9726.	3.3	18
157	CO2laser with swept pump parameter: The nonlinear regime. Physical Review A, 1991, 44, 5894-5897.	2.5	17
158	SPATIOTEMPORAL CHAOS, LOCALIZED STRUCTURES AND SYNCHRONIZATION IN THE VECTOR COMPLEX GINZBURGâ€“LANDAU EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 2257-2264.	1.7	17
159	Transition from oscillatory to excitable regime in a system forced at three times its natural frequency. Physical Review E, 2001, 64, 056218.	2.1	17
160	Phase-locked spatial domains and Bloch domain walls in type-II optical parametric oscillators. Physical Review E, 2001, 64, 056231.	2.1	17
161	All-optical image processing with cavity type II second-harmonic generation. Optics Letters, 2003, 28, 1695.	3.3	17
162	Gradual learning and the evolution of cooperation in the spatial Continuous Prisonerâ€™s Dilemma. European Physical Journal B, 2009, 71, 273-280.	1.5	17

#	Article	IF	Citations
163	A Model for Cross-Cultural Reciprocal Interactions through Mass Media. PLoS ONE, 2012, 7, e51035.	2.5	17
164	Rescue of endemic states in interconnected networks with adaptive coupling. Scientific Reports, 2016, 6, 29342.	3.3	17
165	Limit cycles and detailed balance in Fokker-Planck equations. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1980, 40, 167-174.	1.9	16
166	Quantum properties of transverse pattern formation in second-harmonic generation. Physical Review A, 2002, 66, .	2.5	16
167	Convection-induced nonlinear symmetry breaking in wave mixing. Physical Review E, 2005, 72, 025603.	2.1	16
168	Multilayer coevolution dynamics of the nonlinear voter model. New Journal of Physics, 2019, 21, 035004.	2.9	16
169	Dynamics of pattern formation in the Turing optical instability. Physical Review A, 1989, 39, 5686-5696.	2.5	15
170	Characterizing strong disorder by the divergence of a diffusion time. Physical Review A, 1990, 41, 4562-4565.	2.5	15
171	Transient dynamics of a laser under a fluctuating weak external field. Optics Communications, 1994, 109, 435-440.	2.1	15
172	Scaling in the Structure of Directory Trees in a Computer Cluster. Physical Review Letters, 2005, 95, 128701.	7.8	15
173	Herding and idiosyncratic choices: Nonlinearity and aging-induced transitions in the noisy voter model. Comptes Rendus Physique, 2019, 20, 262-274.	0.9	15
174	A class of exactly solvable Fokker Planck equations. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1979, 33, 307-312.	1.9	14
175	Transient dynamics of orientational fluctuations in the FrÃ©edericksz transition. Physical Review A, 1986, 33, 2769-2774.	2.5	14
176	Pulse statistics in single-mode semiconductor lasers modulated at gigahertz rates. Optics Letters, 1991, 16, 1753.	3.3	14
177	Pattern effects in time jitter of semiconductor lasers. Applied Physics Letters, 1992, 61, 1748-1750.	3.3	14
178	Statistical properties of the spectrum of light pulses in fast pseudorandom word modulation of a single-mode semiconductor laser. IEEE Journal of Quantum Electronics, 1995, 31, 1401-1408.	1.9	14
179	Noise-sustained structures in coupled complex Ginzburg-Landau equations for a convectively unstable system. Physical Review E, 1996, 54, 6344-6355.	2.1	14
180	Coupled dynamics of node and link states in complex networks: a model for language competition. New Journal of Physics, 2016, 18, 113056.	2.9	14

#	Article	IF	Citations
181	Coevolving nonlinear voter model with triadic closure. Europhysics Letters, 2018, 124, 30001.	2.0	14
182	Harmonically bound Brownian motion in flowing fluids. Physica A: Statistical Mechanics and Its Applications, 1982, 116, 448-461.	2.6	13
183	Wave-Unlocking Transition in Resonantly Coupled Complex Ginzburg-Landau Equations. Physical Review Letters, 1996, 76, 1956-1959.	7.8	13
184	Twin beams, nonlinearity, and walk-off in optical parametric oscillators. Physical Review A, 2002, 66, .	2.5	13
185	Intensity and polarization self-pulsations in vertical-cavity surface-emitting lasers. Optics Letters, 2002, 27, 391.	3.3	13
186	Dynamics of defects in the vector complex Ginzburgâ€“Landau equation. Physica D: Nonlinear Phenomena, 2003, 174, 176-197.	2.8	13
187	Agent-based models of language competition. International Journal of the Sociology of Language, 2013, 2013, .	0.8	13
188	Fragmentation transition in a coevolving network with link-state dynamics. Physical Review E, 2014, 89, 062802.	2.1	13
189	Joint effect of ageing and multilayer structure prevents ordering in the voter model. Scientific Reports, 2017, 7, 7166.	3.3	13
190	Density fluctuations in simple stochastic reactor models. Annals of Nuclear Energy, 1983, 10, 263-269.	1.8	12
191	Noise and pattern selection in the one-dimensional Swift-Hohenberg equation. Physica D: Nonlinear Phenomena, 1992, 61, 159-165.	2.8	12
192	Defect-freezing and defect-unbinding in the vector complex Ginzburgâ€“Landau equation. Computer Physics Communications, 1999, 121-122, 414-419.	7.5	12
193	Stable droplets and nucleation in asymmetric bistable nonlinear optical systems. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S265-S270.	1.4	12
194	FrÃ©edericksz transition in a periodic magnetic field. Physical Review A, 1988, 38, 2641-2649.	2.5	11
195	Phase and amplitude correlations induced by the switch-on chirp of a detuned laser. Physical Review A, 1991, 44, 7657-7668.	2.5	11
196	Ordering and finite-size effects in the dynamics of one-dimensional transient patterns. Physical Review E, 1993, 47, 4151-4160.	2.1	11
197	Emergence of complex structures from nonlinear interactions and noise in coevolving networks. Scientific Reports, 2020, 10, 15660.	3.3	11
198	The Fate of Bilingualism in a Model of Language Competition. , 2007, , 83-94.		11

#	Article	IF	Citations
199	Stochastic quantization and detailed balance in Fokker-Planck dynamics. Journal of Statistical Physics, 1979, 21, 313-335.	1.2	10
200	Spectrum of transmitted light in optical bistability: Effects of phase fluctuations of the driving laser. Physical Review A, 1986, 33, 2481-2490.	2.5	10
201	Detection of a weak external signal via the switch-on-time statistics of a semiconductor laser. Physical Review A, 1993, 47, 3390-3395.	2.5	10
202	Dynamics of link states in complex networks: The case of a majority rule. Physical Review E, 2012, 86, 066113.	2.1	10
203	Echo chambers and information transmission biases in homophilic and heterophilic networks. Scientific Reports, 2022, 12, .	3.3	10
204	Finite-size scaling theory for non-linear relaxation. Journal of Physics A, 1980, 13, L443-L447.	1.6	9
205	Spatial behavior of light in second-harmonic generation. Physical Review A, 2002, 65, .	2.5	9
206	Synchronization of vectorial noise-sustained structures. Physical Review E, 2003, 68, 036201.	2.1	9
207	Competition and dual users in complex contagion processes. Scientific Reports, 2018, 8, 14580.	3.3	9
208	Absorbing-state transition in a coevolution model with node and link states in an adaptive network: network fragmentation transition at criticality. New Journal of Physics, 2020, 22, 113001.	2.9	9
209	Theory of fluctuations and parametric noise in a point nuclear reactor model. Annals of Nuclear Energy, 1984, 11, 321-336.	1.8	8
210	Hydrodynamic Effects and Transient Transverse Fluctuations in The Freedericksz Transition. Molecular Crystals and Liquid Crystals, 1991, 199, 393-398.	0.7	8
211	Polarization state selection and stability in a laser with a polarization-isotropic resonator; an example of no lasing despite inversion above threshold (Optics Comm. 117 (1995) 244). Optics Communications, 1995, 121, 168.	2.1	8
212	Spatial pump-meter quantum correlations in a vectorial Kerr-medium model. Physical Review A, 1999, 59, 1622-1632.	2.5	8
213	Timing Interactions in Social Simulations: The Voter Model. Understanding Complex Systems, 2013, , 331-352.	0.6	8
214	Metastability and front propagation in the first-order optical FrÃ©edericksz transition. Physical Review A, 1990, 41, 6852-6858.	2.5	7
215	Growth dynamics of noise-sustained structures in nonlinear optical resonators. Optics Express, 1998, 3, 63.	3.4	7
216	Fronts, domain growth, and dynamical scaling in ad=1nonpotential system. Physical Review E, 1998, 58, 3125-3134.	2.1	7

#	Article	IF	Citations
217	Convective and absolute instabilities in the subcritical Ginzburg-Landau equation. European Physical Journal B, 1999, 11, 517-524.	1.5	7
218	Combined effects of semiconductor gain dynamics, spin dynamics, and thermal shift in polarization selection in VCSELs. , 2000, 3944, 242.		7
219	Polarization quantum properties in a type-II optical parametric oscillator below threshold. Physical Review A, 2003, 68, .	2.5	7
220	Domain wall dynamics: Growth laws, localized structures and stable droplets. European Physical Journal: Special Topics, 2007, 146, 71-86.	2.6	7
221	MODELLING LANGUAGE COMPETITION: BILINGUALISM AND COMPLEX SOCIAL NETWORKS. , 2008, , .		7
222	Introduction to the chaos focus issue on the dynamics of social systems. Chaos, 2020, 30, 120401.	2.5	7
223	Wick's theorem and Fokker-Planck dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 62, 467-468.	2.1	6
224	<title>Statistics of laser switch-on</title>. , 1991, , .		6
225	Isotropic and squeezed colored pump noise effects on the degenerate parametric oscillator. Physical Review A, 1997, 55, 2245-2253.	2.5	6
226	Polarization partition noise and intensity fluctuation linewidth in a nearly symmetric vector laser. Physical Review A, 1998, 57, 3843-3857.	2.5	6
227	Patterns arising from the interaction between scalar and vectorial instabilities in two-photon resonant Kerr cavities. Physical Review E, 2002, 65, 046620.	2.1	6
228	Coordination in a skeptical two-group population. Journal of Economic Interaction and Coordination, 2019, 14, 203-214.	0.7	6
229	Coordination and equilibrium selection in games: the role of local effects. Scientific Reports, 2022, 12, 3373.	3.3	6
230	Biased-voter model: How persuasive a small group can be?. Chaos, Solitons and Fractals, 2022, 161, 112363.	5.1	6
231	Finite-temperatureTmatrix in a real-time formalism. Physical Review A, 1978, 17, 480-485.	2.5	5
232	Correlation functions of non-linear nuclear reactor models. Annals of Nuclear Energy, 1985, 12, 471-482.	1.8	5
233	Transient behavior of a parametric amplifier with an added fourth-order interaction. Physical Review A, 1992, 45, 3216-3223.	2.5	5
234	Multiple front propagation into unstable states. Physical Review E, 1994, 50, 377-385.	2.1	5

#	Article	IF	Citations
235	Dynamical polarization states above the instability threshold for circularly polarized laser emission. Optics Communications, 1997, 138, 305-310.	2.1	5
236	Fluctuations and correlations in the polarization patterns of a Kerr medium. Physical Review E, 1998, 58, 74-79.	2.1	5
237	Period stabilization in the Busseâ€“Heikes model of the KÃ¼ppersâ€“Lortz instability. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 315-336.	2.6	5
238	Phase synchronization and polarization ordering of globally coupled oscillators. Physical Review E, 2004, 70, 035201.	2.1	5
239	Big science and big administration. European Physical Journal: Special Topics, 2012, 214, 635-666.	2.6	5
240	Dynamical pictures and causality in finite temperature Green's functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 62, 209-210.	2.1	4
241	Stochastic quantization and path integral formulation of Fokker-Planck equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 67, 243-245.	2.1	4
242	Unified description of internal fluctuations and external white poisson noise. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 443-447.	2.1	4
243	Modulation response of quantum-well lasers with carrier transport effects under weak optical feedback. IEEE Photonics Technology Letters, 1996, 8, 861-863.	2.5	4
244	Polarization properties of optically pumped VCSELs in a transverse magnetic field. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1998, 10, L1-L5.	0.9	4
245	Polarization dynamics of birefringent index-guided vertical-cavity surface-emitting lasers. , 1998, , .		4
246	Space inversion symmetry breaking and pattern selection in nonlinear optics. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 191-197.	1.4	4
247	Viability and Resilience in the Dynamics of Language Competition. Understanding Complex Systems, 2011, , 39-73.	0.6	4
248	Local connectivity effects in learning and coordination dynamics in a two-layer network. Chaos, 2020, 30, 083125.	2.5	4
249	Dynamics of field-induced transient pattern formation in nematics. Physica Scripta, 1988, 38, 418-425.	2.5	3
250	Semiconductor lasers with weak optical feedback: spectral properties and frequency-dependent losses. Optics Letters, 1993, 18, 1329.	3.3	3
251	Transverse and polarization mode selection in VCSELs. , 2001, 4283, 139.		3
252	Polarization coupling and pattern selection in a type-II optical parametric oscillator. Physical Review E, 2002, 66, 036228.	2.1	3

#	Article	IF	Citations
253	Use of nonlinear properties of intracavity type II second harmonic generation for image processing. Applied Physics B: Lasers and Optics, 2005, 81, 955-962.	2.2	3
254	Analysis of attachment models for directory and file trees. Physica D: Nonlinear Phenomena, 2006, 224, 149-155.	2.8	3
255	Chimera and Anticoordination States in Learning Dynamics. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	1.3	3
256	Dynamic disorder, renewal, and anomalous diffusion. Physical Review B, 1989, 40, 9056-9060.	3.2	2
257	Domain growth in a multivariable nonpotential system. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 207-212.	2.6	2
258	Quantum correlations close to a square pattern forming instability. European Physical Journal D, 2003, 22, 441-451.	1.3	2
259	Language Choice in a Multilingual Society: A View from Complexity Science. , 0, , 187-217.		2
260	On the importance of trip destination for modelling individual human mobility patterns. Journal of the Royal Society Interface, 2020, 17, 20200673.	3.4	2
261	On the Fokker-Planck Dynamics Approach to Langevin Equations. Progress of Theoretical Physics, 1980, 63, 62-71.	2.0	1
262	Effects of an intensity-dependent linewidth enhancement factor on the transient spectral properties of a gain-switched single-mode semiconductor laser. IEEE Photonics Technology Letters, 1993, 5, 503-506.	2.5	1
263	Polarization state selection and switching in VCSELs. , 1996, 2693, 213.		1
264	<title>Polarization properties and transverse mode characteristics in quantum well vertical cavity surface-emitting lasers</title>. , 1996, , .		1
265	Domain growth and coarsening inhibition in a nonpotential system. Computer Physics Communications, 1999, 121-122, 324-326.	7.5	1
266	Intensity and polarization self-pulsations in VCSELs. , 2002, , .		1
267	Polarization properties of self-pulsating VCSELs. , 0, , .		1
268	<title>Localized structures in nonlinear optical cavities</title>. , 2006, , .		1
269	FIRST PASSAGE TIME DISTRIBUTION FOR DELAYED LASER THRESHOLD INSTABILITY. Journal De Physique Colloque, 1988, 49, C2-149-C2-151.	0.2	1
270	Manifesto de CiÃªncia Social Computacional. MediaÃ§Ãµes: Revista De CiÃªncias Sociais, 2013, 18, 20.	0.1	1

#	Article	IF	Citations
271	Competition between evaporation and fission: Stochastic aspects. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1989, 334, 109-110.	0.3	0
272	Intensity statistics and spatial correlation functions in a noise-driven unidirectional laser amplifier. Optics Communications, 1991, 85, 104-116.	2.1	0
273	Transient evolution of the field power spectrum during the switch-on of a detuned laser. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1996, 8, 405-412.	0.9	0
274	Spatial and Polarization Dynamics of Semiconductor Lasers. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 2012.	2.1	0
275	Introduction. Optics Express, 1999, 5, 28.	3.4	0
276	Vectorial chaos synchronization and polarization encoding in self-pulsating VCSELs. , 2002, 4646, 227.		0
277	Two-mode dynamics in different semiconductor laser structures. , 2006, 6184, 38.		0
278	Anomalous Shattered Fragmentation Transition in the Coevolving Multiplex. , 2014, , .		0
279	Localized Structures and Circular Domain Walls in a Vectorial Kerr Cavity. , 2001, , .		0
280	Dark ring cavity solitons and stable droplets in models of nonlinear optical cavities. , 2002, , .		0
281	Optical Image Processing in Second-Harmonic Generation. , 2007, , 167-200.		0
282	Collective Phenomena in Complex Social Networks. Understanding Complex Systems, 2009, , 189-199.	0.6	0