

J Garcia-Ojalvo

List of Publications by Year in descending order

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226
papers

14,189
citations

50566

48
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25983

112
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249
all docs

249
docs citations

249
times ranked

11417
citing authors

#	ARTICLE	IF	CITATIONS
1	Thalamocortical Spectral Transmission Relies on Balanced Input Strengths. <i>Brain Topography</i> , 2022, 35, 4-18.	0.8	1
2	A segmentation clock patterns cellular differentiation in a bacterial biofilm. <i>Cell</i> , 2022, 185, 145-157.e13.	13.5	31
3	How can Waddington-like landscapes facilitate insights beyond developmental biology?. <i>Cell Systems</i> , 2022, 13, 4-9.	2.9	9
4	Systemic Inflammatory Biomarkers Define Specific Clusters in Patients with Bronchiectasis: A Large-Cohort Study. <i>Biomedicines</i> , 2022, 10, 225.	1.4	4
5	Synthetic multistability in mammalian cells. <i>Science</i> , 2022, 375, eabg9765.	6.0	51
6	Evaluation of Ravindran et al.: Real-time detection of signaling pulses in vivo: making cells monitor themselves. <i>Cell Systems</i> , 2022, 13, 105-106.	2.9	0
7	Blood Neutrophil Counts Define Specific Clusters of Bronchiectasis Patients: A Hint to Differential Clinical Phenotypes. <i>Biomedicines</i> , 2022, 10, 1044.	1.4	7
8	Localized electrical stimulation triggers cell-type-specific proliferation in biofilms. <i>Cell Systems</i> , 2022, 13, 488-498.e4.	2.9	8
9	A tunable population timer in multicellular consortia. <i>iScience</i> , 2021, 24, 102347.	1.9	1
10	Mechanistic models of cell-fate transitions from single-cell data. <i>Current Opinion in Systems Biology</i> , 2021, 26, 79-86.	1.3	8
11	lonoBiology: The functional dynamics of the intracellular metallome, with lessons from bacteria. <i>Cell Systems</i> , 2021, 12, 497-508.	2.9	15
12	Parkinson's disease patient-specific neuronal networks carrying the LRRK2 G2019S mutation unveil early functional alterations that predate neurodegeneration. <i>Npj Parkinson's Disease</i> , 2021, 7, 55.	2.5	11
13	Phenotypic Clustering in Non-Cystic Fibrosis Bronchiectasis Patients: The Role of Eosinophils in Disease Severity. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8431.	1.2	21
14	Species-specific segmentation clock periods are due to differential biochemical reaction speeds. <i>Science</i> , 2020, 369, 1450-1455.	6.0	169
15	Encoding Membrane-Potential-Based Memory within a Microbial Community. <i>Cell Systems</i> , 2020, 10, 417-423.e3.	2.9	71
16	Antithetic population response to antibiotics in a polybacterial community. <i>Science Advances</i> , 2020, 6, eaaz5108.	4.7	16
17	Soft-wired long-term memory in a natural recurrent neuronal network. <i>Chaos</i> , 2020, 30, 061101.	1.0	0
18	Encoding Spatial Memory within a Bacterial Biofilm Community. <i>Biophysical Journal</i> , 2020, 118, 610a.	0.2	2

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19	Growth-factor-mediated coupling between lineage size and cell fate choice underlies robustness of mammalian development. <i>ELife</i> , 2020, 9, .	2.8	56
20	Characterization of the non-stationary nature of steady-state visual evoked potentials using echo state networks. <i>PLoS ONE</i> , 2019, 14, e0218771.	1.1	7
21	Electrical Polarization Enables Integrative Quality Control during Bacterial Differentiation into Spores. <i>IScience</i> , 2019, 16, 378-389.	1.9	36
22	Integrate-and-fire network model of activity propagation from thalamus to cortex. <i>BioSystems</i> , 2019, 183, 103978.	0.9	4
23	Metabolic basis of brain-like electrical signalling in bacterial communities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180382.	1.8	38
24	Magnesium Flux Modulates Ribosomes to Increase Bacterial Survival. <i>Cell</i> , 2019, 177, 352-360.e13.	13.5	77
25	New Tools for Bacterial Biofilm Electrophysiology. <i>Biophysical Journal</i> , 2019, 116, 129a.	0.2	0
26	A living liquid crystal dissected. <i>Nature Physics</i> , 2019, 15, 207-208.	6.5	2
27	A Novel Bacterial Cell to Cell Communication Mechanism. <i>Biophysical Journal</i> , 2018, 114, 335a.	0.2	3
28	Detection of generalized synchronization using echo state networks. <i>Chaos</i> , 2018, 28, 033118.	1.0	24
29	Molecular Time Sharing through Dynamic Pulsing in Single Cells. <i>Cell Systems</i> , 2018, 6, 216-229.e15.	2.9	29
30	Collective excitability in a mesoscopic neuronal model of epileptic activity. <i>Physical Review E</i> , 2018, 97, 012204.	0.8	5
31	Extracranial Estimation of Neural Mass Model Parameters Using the Unscented Kalman Filter. <i>Frontiers in Applied Mathematics and Statistics</i> , 2018, 4, .	0.7	3
32	Recurrence-based information processing in gene regulatory networks. <i>Chaos</i> , 2018, 28, 106313.	1.0	14
33	Differentiating resting brain states using ordinal symbolic analysis. <i>Chaos</i> , 2018, 28, 106307.	1.0	18
34	Self-Amplifying Pulsatile Protein Dynamics without Positive Feedback. <i>Cell Systems</i> , 2018, 7, 453-462.e1.	2.9	13
35	Signal Percolation within a Bacterial Community. <i>Cell Systems</i> , 2018, 7, 137-145.e3.	2.9	77
36	Bistable emergence of oscillations in growing <i>Bacillus subtilis</i> biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8333-E8340.	3.3	41

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37	Diversity of fate outcomes in cell pairs under lateral inhibition. <i>Development (Cambridge)</i> , 2017, 144, 1177-1186.	1.2	33
38	Consistency of heterogeneous synchronization patterns in complex weighted networks. <i>Chaos</i> , 2017, 27, 031102.	1.0	7
39	Modeling cellular regulation by pulsatile inputs. <i>Current Opinion in Systems Biology</i> , 2017, 3, 23-29.	1.3	8
40	Cortical Spike Synchrony as a Measure of Input Familiarity. <i>Neural Computation</i> , 2017, 29, 2491-2510.	1.3	13
41	Coupling between distant biofilms and emergence of nutrient time-sharing. <i>Science</i> , 2017, 356, 638-642.	6.0	192
42	Impact of Zygoty on Bimodal Phenotype Distributions. <i>Biophysical Journal</i> , 2017, 113, 148-156.	0.2	0
43	Temporally correlated fluctuations drive epileptiform dynamics. <i>NeuroImage</i> , 2017, 146, 188-196.	2.1	14
44	Dynamics and heterogeneity of brain damage in multiple sclerosis. <i>PLoS Computational Biology</i> , 2017, 13, e1005757.	1.5	33
45	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. <i>Npj Systems Biology and Applications</i> , 2016, 2, 16011.	1.4	21
46	Transition between Functional Regimes in an Integrate-And-Fire Network Model of the Thalamus. <i>PLoS ONE</i> , 2016, 11, e0161934.	1.1	13
47	Cell Lineage Trees Bear Fruit. <i>Cell Systems</i> , 2016, 3, 511-513.	2.9	1
48	Overexpression of <i>Dyrk1A</i> , a Down Syndrome Candidate, Decreases Excitability and Impairs Gamma Oscillations in the Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 3648-3659.	1.7	54
49	Biological Insights from Synthetic Biology. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 380-382.	0.6	2
50	Collective stochastic coherence in recurrent neuronal networks. <i>Nature Physics</i> , 2016, 12, 881-887.	6.5	43
51	Mutual regulation causes co-entrainment between a synthetic oscillator and the bacterial cell cycle. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 533-541.	0.6	4
52	Stimulus induced resonance in a neural mass model driven with a temporally correlated noise. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0
53	Cross-frequency transfer in a stochastically driven mesoscopic neuronal model. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 14.	1.2	9
54	Synchronization-based computation through networks of coupled oscillators. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 97.	1.2	14

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55	The analysis of semantic networks in multiple sclerosis identifies preferential damage of long-range connectivity. <i>Multiple Sclerosis and Related Disorders</i> , 2015, 4, 387-394.	0.9	9
56	Mesoscopic Segregation of Excitation and Inhibition in a Brain Network Model. <i>PLoS Computational Biology</i> , 2015, 11, e1004007.	1.5	21
57	Metabolic co-dependence gives rise to collective oscillations within biofilms. <i>Nature</i> , 2015, 523, 550-554.	13.7	393
58	Structural determinants of criticality in biological networks. <i>Frontiers in Physiology</i> , 2015, 6, 127.	1.3	32
59	Ion channels enable electrical communication in bacterial communities. <i>Nature</i> , 2015, 527, 59-63.	13.7	527
60	Phase-Coherence Transitions and Communication in the Gamma Range between Delay-Coupled Neuronal Populations. <i>PLoS Computational Biology</i> , 2014, 10, e1003723.	1.5	37
61	Collective stochastic coherence and synchronizability in weighted scale-free networks. <i>New Journal of Physics</i> , 2014, 16, 013036.	1.2	13
62	Role of frequency mismatch in neuronal communication through coherence. <i>Journal of Computational Neuroscience</i> , 2014, 37, 193-208.	0.6	27
63	Probing scale interaction in brain dynamics through synchronization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130533.	1.8	9
64	Transient oscillatory dynamics of interferon beta signaling in macrophages. <i>BMC Systems Biology</i> , 2013, 7, 59.	3.0	20
65	Dynamic cross-regulation of antigen-specific effector and regulatory T cell subpopulations and microglia in brain autoimmunity. <i>BMC Systems Biology</i> , 2013, 7, 34.	3.0	24
66	A competitive protein interaction network buffers Oct4-mediated differentiation to promote pluripotency in embryonic stem cells. <i>Molecular Systems Biology</i> , 2013, 9, 694.	3.2	41
67	Complex photonics: Dynamics and applications of delay-coupled semiconductor lasers. <i>Reviews of Modern Physics</i> , 2013, 85, 421-470.	16.4	478
68	Modeling Gene Expression in Time and Space. <i>Annual Review of Biophysics</i> , 2013, 42, 605-627.	4.5	30
69	Circuit-level input integration in bacterial gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7091-7096.	3.3	19
70	Emergent bimodal firing patterns implement different encoding strategies during gamma-band oscillations. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 18.	1.2	12
71	NOISE-INDUCED UP/DOWN DYNAMICS IN SCALE-FREE NEURONAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250175.	0.7	4
72	Localized cell death focuses mechanical forces during 3D patterning in a biofilm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18891-18896.	3.3	305

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73	Towards a statistical mechanics of cell fate decisions. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 619-626.	1.5	69
74	Zero-lag synchronization and bubbling in delay-coupled lasers. <i>Physical Review E</i> , 2012, 85, 026209.	0.8	24
75	Correlations Between the Levels of Oct4 and Nanog as a Signature for Na ⁺ ve Pluripotency in Mouse Embryonic Stem Cells. <i>Stem Cells</i> , 2012, 30, 2683-2691.	1.4	48
76	Integration of cellular signals in chattering environments. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 106-112.	1.4	10
77	Speed-Dependent Cellular Decision Making in Nonequilibrium Genetic Circuits. <i>PLoS ONE</i> , 2012, 7, e32779.	1.1	25
78	Interspike-interval correlations induced by two-state switching in an excitable system. <i>Europhysics Letters</i> , 2012, 99, 10004.	0.7	11
79	Experimental characterization of bubbling in delay-coupled semiconductor lasers. , 2011, , .		0
80	Gene circuit designs for noisy excitable dynamics. <i>Mathematical Biosciences</i> , 2011, 231, 90-97.	0.9	35
81	Physical approaches to the dynamics of genetic circuits: a tutorial. <i>Contemporary Physics</i> , 2011, 52, 439-464.	0.8	13
82	Dynamical Consequences of Bandpass Feedback Loops in a Bacterial Phosphorelay. <i>PLoS ONE</i> , 2011, 6, e25102.	1.1	19
83	Temporal competition between differentiation programs determines cell fate choice. <i>Molecular Systems Biology</i> , 2011, 7, 557.	3.2	67
84	Modeling the effector - regulatory T cell cross-regulation reveals the intrinsic character of relapses in Multiple Sclerosis. <i>BMC Systems Biology</i> , 2011, 5, 114.	3.0	37
85	Optimizing periodicity and polymodality in noise-induced genetic oscillators. <i>Physical Review E</i> , 2011, 83, 061904.	0.8	5
86	Language organization and temporal correlations in the spiking activity of an excitable laser: Experiments and model comparison. <i>Physical Review E</i> , 2011, 84, 026202.	0.8	19
87	Dual-lag synchronization between coupled chaotic lasers due to path-delay interference. <i>Chaos</i> , 2011, 21, 043102.	1.0	7
88	Zero-lag synchronization of two delay-coupled lasers: The role of detuning. , 2011, , .		0
89	Information Routing Driven by Background Chatter in a Signaling Network. <i>PLoS Computational Biology</i> , 2011, 7, e1002297.	1.5	7
90	Mutual Inactivation of Notch Receptors and Ligands Facilitates Developmental Patterning. <i>PLoS Computational Biology</i> , 2011, 7, e1002069.	1.5	134

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91	Reversible and Noisy Progression towards a Commitment Point Enables Adaptable and Reliable Cellular Decision-Making. <i>PLoS Computational Biology</i> , 2011, 7, e1002273.	1.5	35
92	Quantifying stochasticity in the dynamics of delay-coupled semiconductor lasers via forbidden patterns. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 367-377.	1.6	10
93	Resonant propagation of spike trains in delay-coupled neural subthreshold oscillators. <i>European Physical Journal: Special Topics</i> , 2010, 187, 189-197.	1.2	1
94	Cooperative differentiation through clustering in multicellular populations. <i>Journal of Theoretical Biology</i> , 2010, 263, 189-202.	0.8	98
95	Cis-interactions between Notch and Delta generate mutually exclusive signalling states. <i>Nature</i> , 2010, 465, 86-90.	13.7	559
96	Quantifying the statistical complexity of low-frequency fluctuations in semiconductor lasers with optical feedback. <i>Physical Review A</i> , 2010, 82, .	1.0	45
97	Transient low-frequency fluctuations in semiconductor lasers with optical feedback. <i>Physical Review A</i> , 2010, 81, .	1.0	30
98	Phase-response approach to firing-rate selectivity in neurons with subthreshold oscillations. <i>Physical Review E</i> , 2010, 82, 041908.	0.8	4
99	Crowd Synchrony and Quorum Sensing in Delay-Coupled Lasers. <i>Physical Review Letters</i> , 2010, 105, 264101.	2.9	87
100	Relating structural and functional anomalous connectivity in the aging brain via neural mass modeling. <i>NeuroImage</i> , 2010, 52, 848-861.	2.1	57
101	Relaxation dynamics and frequency response of a noisy cell signaling network. <i>Chaos</i> , 2010, 20, 045110.	1.0	11
102	Timing Cellular Decision Making Under Noise via Cell-Cell Communication. <i>PLoS ONE</i> , 2009, 4, e4872.	1.1	47
103	Noise-Induced Phase Bistability via Stochastic Rocking. <i>Physical Review Letters</i> , 2009, 102, 010601.	2.9	15
104	An Intersegmental Neuronal Architecture for Spinal Wave Propagation under Deletions. <i>Journal of Neuroscience</i> , 2009, 29, 10254-10263.	1.7	20
105	Lag alternance in unidirectional coupled semiconductor lasers. , 2009, , .		0
106	Lag Synchronization in Delay-Coupled Semiconductor Lasers. , 2009, , .		0
107	Dynamics of globally delay-coupled neurons displaying subthreshold oscillations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3255-3266.	1.6	26
108	Regulated Fluctuations in Nanog Expression Mediate Cell Fate Decisions in Embryonic Stem Cells. <i>PLoS Biology</i> , 2009, 7, e1000149.	2.6	498

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109	Architecture-Dependent Noise Discriminates Functionally Analogous Differentiation Circuits. <i>Cell</i> , 2009, 139, 512-522.	13.5	242
110	Noise-Induced Coherence in Multicellular Circadian Clocks. <i>Biophysical Journal</i> , 2009, 96, 3573-3581.	0.2	52
111	Synchronization of coupled biological oscillators under spatially heterogeneous environmental forcing. <i>Journal of Theoretical Biology</i> , 2008, 250, 37-47.	0.8	11
112	Neurodynamical amplification of perceptual signals via system-size resonance. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 316-323.	1.3	6
113	Interplay of subthreshold activity, time-delayed feedback, and noise on neuronal firing patterns. <i>Physical Review E</i> , 2008, 78, 041907.	0.8	49
114	A genetic timer through noise-induced stabilization of an unstable state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15732-15737.	3.3	69
115	Multistability of synthetic genetic networks with repressive cell-to-cell communication. <i>Physical Review E</i> , 2008, 78, 031904.	0.8	84
116	Resonant Spike Propagation in Coupled Neurons with Subthreshold Activity. <i>Lecture Notes in Computer Science</i> , 2008, , 695-702.	1.0	3
117	Effect of Feedback Strength in Coupled Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2008, , 646-654.	1.0	2
118	Modeling Synchronization Loss in Large-Scale Brain Dynamics. <i>Lecture Notes in Computer Science</i> , 2008, , 675-684.	1.0	0
119	Contour Integration and Synchronization in Neuronal Networks of the Visual Cortex. <i>Lecture Notes in Computer Science</i> , 2008, , 703-712.	1.0	1
120	ELECTRONIC DESIGN OF SYNTHETIC GENETIC NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3507-3511.	0.7	6
121	Synchronization via clustering in a small semiconductor laser network. , 2007, , .		0
122	PERIODâ€“TIMELESS Interval Timer May Require an Additional Feedback Loop. <i>PLoS Computational Biology</i> , 2007, 3, e154.	1.5	14
123	Processing distributed inputs in coupled excitable lasers. <i>Physical Review A</i> , 2007, 76, .	1.0	2
124	Multistability and Clustering in a Population of Synthetic Genetic Oscillators via Phase-Repulsive Cell-to-Cell Communication. <i>Physical Review Letters</i> , 2007, 99, 148103.	2.9	206
125	Coincidence detection of inharmonic pulses in a nonlinear crystal. <i>Physical Review E</i> , 2007, 75, 012902.	0.8	0
126	Synchronization via clustering in a small delay-coupled laser network. <i>Europhysics Letters</i> , 2007, 79, 64003.	0.7	29

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127	Synchronization in Semiconductor Laser Rings. <i>Journal of Lightwave Technology</i> , 2007, 25, 1549-1554.	2.7	28
128	Spatiotemporal order out of noise. <i>Reviews of Modern Physics</i> , 2007, 79, 829-882.	16.4	433
129	Stochastic suppression of gene expression oscillators under intercell coupling. <i>Physical Review E</i> , 2007, 75, 031917.	0.8	15
130	Tunability and Noise Dependence in Differentiation Dynamics. <i>Science</i> , 2007, 315, 1716-1719.	6.0	448
131	Self-Sustained Spatiotemporal Oscillations Induced by Membrane-Bulk Coupling. <i>Physical Review Letters</i> , 2007, 98, 168303.	2.9	38
132	Controlling the leader-laggard dynamics in delay-synchronized lasers. <i>Chaos</i> , 2007, 17, 033122.	1.0	11
133	Phantom reflexes: Muscle contractions at a frequency not physically present in the input stimuli. <i>BioSystems</i> , 2007, 90, 379-388.	0.9	6
134	Ghost resonance in a pool of heterogeneous neurons. <i>BioSystems</i> , 2007, 89, 166-172.	0.9	7
135	Neuronal Multistability Induced by Delay. <i>Lecture Notes in Computer Science</i> , 2007, , 963-972.	1.0	4
136	Synchronization and symmetry breaking in mutually coupled fiber lasers. <i>Physical Review E</i> , 2006, 73, 045201.	0.8	27
137	Zero-Lag Long-Range Synchronization via Dynamical Relaying. <i>Physical Review Letters</i> , 2006, 97, 123902.	2.9	268
138	An excitable gene regulatory circuit induces transient cellular differentiation. <i>Nature</i> , 2006, 440, 545-550.	13.7	740
139	Episodic synchronization in dynamically driven neurons. <i>Physical Review E</i> , 2006, 74, 061910.	0.8	3
140	Bistable phase control via rocking in a nonlinear electronic oscillator. <i>Chaos</i> , 2006, 16, 043126.	1.0	9
141	Ghost stochastic resonance with distributed inputs in pulse-coupled electronic neurons. <i>Physical Review E</i> , 2006, 73, 021101.	0.8	28
142	Synchronization of electronic genetic networks. <i>Chaos</i> , 2006, 16, 013127.	1.0	16
143	Synchronization by dynamical relaying in electronic circuit arrays. <i>Chaos</i> , 2006, 16, 043113.	1.0	14
144	Episodic Synchronization via Dynamic Injection. <i>Physical Review Letters</i> , 2006, 96, 024102.	2.9	16

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145	Chaos-based communications at high bit rates using commercial fibre-optic links. <i>Nature</i> , 2005, 438, 343-346.	13.7	1,365
146	Synchronization and communication with chaotic laser systems. <i>Progress in Optics</i> , 2005, , 203-341.	0.4	59
147	Coupling-mediated ghost resonance in mutually injected lasers. <i>Chaos</i> , 2005, 15, 013103.	1.0	16
148	Neural mechanism for binaural pitch perception via ghost stochastic resonance. <i>Chaos</i> , 2005, 15, 023903.	1.0	24
149	Demultiplexing chaos from multimode semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 164-170.	1.0	22
150	Role of chemical synapses in coupled neurons with noise. <i>Physical Review E</i> , 2005, 72, 021901.	0.8	57
151	Stochastic bursting due to frequency drift in an injected fibre laser. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S780-S785.	1.4	1
152	Two-photon cavity solitons in a laser: radiative profiles, interaction and control. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S410-S420.	1.4	1
153	Multiplicative white-noise-induced phase transitions: the role of the stochastic interpretation. , 2004, , .		0
154	Delay-induced resonances in an optical system with feedback. <i>Physical Review E</i> , 2004, 69, 046207.	0.8	26
155	Signal propagation in oscillatory media enabled by noise-induced excitability. , 2004, 5471, 102.		0
156	Effects of noise in excitable systems. <i>Physics Reports</i> , 2004, 392, 321-424.	10.3	1,265
157	Spatial coherence resonance near pattern-forming instabilities. <i>Europhysics Letters</i> , 2004, 65, 452-458.	0.7	88
158	Modeling a synthetic multicellular clock: Repressilators coupled by quorum sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10955-10960.	3.3	512
159	Multimode synchronization and communication using unidirectionally coupled semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 640-650.	1.0	34
160	External noise in semiconductor lasers. , 2004, , .		1
161	Vibrational resonance and vibrational propagation in excitable systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 312, 348-354.	0.9	172
162	Symmetry breaking and high-frequency periodic oscillations in mutually coupled laser diodes. <i>Optics Letters</i> , 2003, 28, 1176.	1.7	30

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163	Doubly Stochastic Coherence via Noise-Induced Symmetry in Bistable Neural Models. Physical Review Letters, 2003, 90, 030601.	2.9	61
164	Intrinsic noise-induced phase transitions: Beyond the noise interpretation. Physical Review E, 2003, 67, 046110.	0.8	54
165	Cavity Solitons in Two-Level Lasers with Dense Amplifying Medium. Physical Review Letters, 2003, 91, 083901.	2.9	9
166	Enhancement of the inversionless lasing domain in broad-area three-level systems. , 2003, , .		0
167	Noise-Induced Excitability in Oscillatory Media. Physical Review Letters, 2003, 91, 180601.	2.9	62
168	Bursting dynamics of a fiber laser with an injected signal. Physical Review E, 2003, 67, 036602.	0.8	15
169	ENTRAINMENT OF OPTICAL LOW-FREQUENCY FLUCTUATIONS IS ENHANCED BY COUPLING. Fluctuation and Noise Letters, 2003, 03, L127-L136.	1.0	2
170	Cavity solitons in two-level lasers with local field corrections. , 2003, , .		0
171	Multimode synchronization of unidirectionally coupled semiconductor lasers. , 2003, , .		0
172	Enlargement of the inversionless lasing domain by using broad-area cavities. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, 201-207.	1.4	4
173	Ghost resonance in a semiconductor laser with optical feedback. Europhysics Letters, 2003, 64, 178-184.	0.7	32
174	Ghost resonance in a semiconductor laser operating in an excitable regime. , 2003, 5111, 118.		0
175	Influence of spatiotemporal $1/f$ noise on structure formation in excitable media. , 2003, 5114, 468.		1
176	Stochastic modeling of bursting dynamics in an injected fiber laser. , 2003, , .		0
177	Twofold role of noise in doubly stochastic effects. , 2003, , .		1
178	Spatiotemporal dynamics of three-level inversionless lasers. , 2003, , 601-602.		0
179	Stochastic entrainment of optical power dropouts. Physical Review E, 2002, 66, 021106.	0.8	21
180	Pulse propagation sustained by noise in arrays of bistable electronic circuits. Physical Review E, 2002, 65, 061108.	0.8	24

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181	Noise reduction in spatially coupled microchip lasers. <i>Physical Review A</i> , 2002, 65, .	1.0	4
182	Periodic entrainment of power dropouts in mutually coupled semiconductor lasers. <i>Applied Physics Letters</i> , 2002, 81, 5105-5107.	1.5	24
183	NOISE-ENHANCED PROPAGATION OF BICHROMATIC SIGNALS. <i>Fluctuation and Noise Letters</i> , 2002, 02, L47-L52.	1.0	9
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