

Yong Chen

List of Publications by Year in descending order

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69
papers

1,792
citations

279778

23
h-index

276858

41
g-index

69
all docs

69
docs citations

69
times ranked

1434
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency synchronization and excitabilities of two coupled heterogeneous Morris-Lecar neurons. <i>Chaos, Solitons and Fractals</i> , 2022, 157, 111959.	5.1	2
2	Density fluctuations of two-dimensional active-passive mixtures. <i>Communications in Theoretical Physics</i> , 2022, 74, 075601.	2.5	1
3	Morphologies and dynamics of the interfaces between active and passive phases. <i>Soft Matter</i> , 2021, 17, 9607-9615.	2.7	3
4	Bifurcations and excitability in the temperature-sensitive Morris-Lecar neuron. <i>Nonlinear Dynamics</i> , 2020, 100, 2687-2698.	5.2	27
5	Melting and solid-solid transitions of two-dimensional crystals composed of Janus spheres. <i>Soft Matter</i> , 2020, 16, 3015-3021.	2.7	16
6	Emergence of an optimal temperature in action-potential propagation through myelinated axons. <i>Physical Review E</i> , 2019, 100, 032416.	2.1	22
7	Autapse-induced firing patterns transitions in the Morris-Lecar neuron model. <i>Nonlinear Dynamics</i> , 2019, 96, 2341-2350.	5.2	51
8	Molecular dynamics study of nanodroplet diffusion on smooth solid surfaces. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	4
9	Coherence resonance in an autaptic Hodgkin-Huxley neuron with time delay. <i>Nonlinear Dynamics</i> , 2018, 94, 141-150.	5.2	33
10	Long-term and high-concentration heavy-metal contamination strongly influences the microbiome and functional genes in Yellow River sediments. <i>Science of the Total Environment</i> , 2018, 637-638, 1400-1412.	8.0	249
11	Information Capacity and Transmission in a Courbage-Nekorkin-Vdovin Map-Based Neuron Model. <i>Chinese Physics Letters</i> , 2017, 34, 048701.	3.3	0
12	Evaporation of a nanodroplet on a rough substrate. <i>Frontiers of Physics</i> , 2017, 12, 1.	5.0	9
13	Dynamical response, information transition and energy dependence in a neuron model driven by autapse. <i>Nonlinear Dynamics</i> , 2017, 90, 2893-2902.	5.2	24
14	Influence of Cell-Cell Interactions on the Population Growth Rate in a Tumor. <i>Communications in Theoretical Physics</i> , 2017, 68, 798.	2.5	0
15	Simulation of avascular tumor growth by agent-based game model involving phenotype-phenotype interactions. <i>Scientific Reports</i> , 2016, 5, 17992.	3.3	15
16	Spatiotemporal activities of neural network exposed to external electric fields. <i>Nonlinear Dynamics</i> , 2016, 85, 881-891.	5.2	38
17	Reliability of weak signals detection in neurons with noise. <i>Science China Technological Sciences</i> , 2016, 59, 411-417.	4.0	13
18	Response of autaptic Hodgkin-Huxley neuron with noise to subthreshold sinusoidal signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 462, 321-329.	2.6	25

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19	Spike-Threshold Variability Originated from Separatrix-Crossing in Neuronal Dynamics. <i>Scientific Reports</i> , 2016, 6, 31719.	3.3	5
20	A novel <i>Pseudomonas gessardii</i> strain LZ-E simultaneously degrades naphthalene and reduces hexavalent chromium. <i>Bioresource Technology</i> , 2016, 207, 370-378.	9.6	102
21	<i>Pseudomonas</i> sp. LZ-Q continuously degrades phenanthrene under hypersaline and hyperalkaline condition in a membrane bioreactor system. <i>Biophysics Reports</i> , 2015, 1, 156-167.	0.8	14
22	Firing dynamics of an autaptic neuron. <i>Chinese Physics B</i> , 2015, 24, 128709.	1.4	33
23	Effect of autaptic activity on the response of a Hodgkin-Huxley neuron. <i>Chaos</i> , 2014, 24, 033122.	2.5	62
24	Ground-State Properties of Superfluid Fermi Gas in Fourier-Synthesized Optical Lattices. <i>Chinese Physics Letters</i> , 2014, 31, 030301.	3.3	2
25	Effect of an autapse on the firing pattern transition in a bursting neuron. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 3242-3254.	3.3	116
26	Influence of autapse on mode-locking structure of a Hodgkin-Huxley neuron under sinusoidal stimulus. <i>Journal of Theoretical Biology</i> , 2014, 358, 25-30.	1.7	26
27	First-spike latency in Hodgkin's three classes of neurons. <i>Journal of Theoretical Biology</i> , 2013, 328, 19-25.	1.7	14
28	Evolution of topological defects in two-dimensional quenched colloidal systems. <i>European Physical Journal E</i> , 2013, 36, 126.	1.6	0
29	Measure synchronization in a two-species bosonic Josephson junction. <i>Physical Review E</i> , 2013, 88, 032906.	2.1	23
30	Interaction energy and point-defect configurations in two-dimensional colloidal crystals. <i>Solid State Communications</i> , 2013, 159, 60-64.	1.9	3
31	POINCARÉ SECTION ANALYSIS TO MEASURE SYNCHRONIZATION IN COUPLED HAMILTONIAN SYSTEMS. <i>Modern Physics Letters B</i> , 2013, 27, 1350036.	1.9	7
32	The Role of Coincidence-Detector Neurons in the Reliability and Precision of Subthreshold Signal Detection in Noise. <i>PLoS ONE</i> , 2013, 8, e56822.	2.5	19
33	Zero-Lag Synchronization in Spatiotemporal Chaotic Systems with Long Range Delay Couplings. <i>Chinese Physics Letters</i> , 2012, 29, 050501.	3.3	5
34	Noise Propagation in Gene Regulation Networks Involving Interlinked Positive and Negative Feedback Loops. <i>PLoS ONE</i> , 2012, 7, e51840.	2.5	48
35	A modified Gay-Berne model for liquid crystal molecular dynamics simulation. <i>Polymer</i> , 2012, 53, 634-639.	3.8	9
36	Two features at the two-dimensional freezing transitions. <i>Journal of Chemical Physics</i> , 2011, 134, 034506.	3.0	14

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37	Band structure and dynamic behaviors of Bose-Einstein condensates in Fourier-Synthesized optical lattices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 1033-1041.	2.6	3
38	Role of axonal sodium-channel band in neuronal excitability. <i>Physical Review E</i> , 2011, 84, 052901.	2.1	9
39	Response of Morris-Lecar neurons to various stimuli. <i>Physical Review E</i> , 2011, 83, 021915.	2.1	47
40	MicroRNA-Mediated Positive Feedback Loop and Optimized Bistable Switch in a Cancer Network Involving miR-17-92. <i>PLoS ONE</i> , 2011, 6, e26302.	2.5	42
41	PARAMETER FLUCTUATION-INDUCED PATTERN TRANSITION IN THE COMPLEX GINZBURG-LANDAU EQUATION. <i>International Journal of Modern Physics B</i> , 2010, 24, 4481-4500.	2.0	3
42	Band structure and tunnelling dynamics of Bose-Einstein condensates in Fourier-synthesized optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 225303.	1.5	2
43	Melting in two-dimensional Yukawa systems: A Brownian dynamics simulation. <i>Journal of Chemical Physics</i> , 2010, 133, 234508.	3.0	51
44	Four-state rock-paper-scissors games in constrained Newman-Watts networks. <i>Physical Review E</i> , 2009, 79, 062901.	2.1	23
45	CONTROL OF SPIRAL WAVES AND SPATIOTEMPORAL CHAOS WITH PERIODICAL SUBTHRESHOLD ORDERED WAVE PERTURBATIONS. <i>International Journal of Modern Physics C</i> , 2009, 20, 85-96.	1.7	3
46	Dynamic behaviour of Bose-Einstein condensates in optical lattices with two- and three-body interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 185302.	1.5	4
47	Dynamics of Spiral Wave Tip in Excitable Media with Gradient Parameter. <i>Communications in Theoretical Physics</i> , 2009, 52, 173-179.	2.5	11
48	Stochastic resonance in time-delayed bistable systems driven by weak periodic signal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 977-983.	2.6	44
49	Coevolution of game and network structure with adjustable linking. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4893-4900.	2.6	19
50	Transient dynamics of sparsely connected Hopfield neural networks with arbitrary degree distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1009-1015.	2.6	8
51	Topology and dynamics of attractor neural networks: The role of loopiness. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4411-4416.	2.6	7
52	Detection of subthreshold pulses in neurons with channel noise. <i>Physical Review E</i> , 2008, 78, 051909.	2.1	26
53	Coexistence of hexatic and isotropic phases in two-dimensional Yukawa systems. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 245102.	1.8	20
54	Transient dynamics for sequence-processing neural networks: Effect of degree distributions. <i>Physical Review E</i> , 2008, 77, 016110.	2.1	1

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55	Emergence of synchronization induced by the interplay between two prisoner's dilemma games with volunteering in small-world networks. <i>Physical Review E</i> , 2008, 77, 032103.	2.1	18
56	Effect of memory on the prisoner's dilemma game in a square lattice. <i>Physical Review E</i> , 2008, 78, 041129.	2.1	93
57	Destruction of Spiral Wave Using External Electric Field Modulated by Logistic Map. <i>Communications in Theoretical Physics</i> , 2007, 47, 675-678.	2.5	6
58	Network growth approach to macroevolution. <i>New Journal of Physics</i> , 2007, 9, 220-220.	2.9	2
59	Description of dynamics of stock prices by a Langevin approach. <i>Chinese Physics B</i> , 2007, 16, 975-983.	1.3	1
60	Statistical Neurodynamics for Sequence Processing Neural Networks with Finite Dilution. <i>Lecture Notes in Computer Science</i> , 2007, , 1144-1152.	1.3	4
61	Optimized annealing of traveling salesman problem from the nth-nearest-neighbor distribution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 627-632.	2.6	32
62	Spatial prisoner's dilemma game with volunteering in Newman-Watts small-world networks. <i>Physical Review E</i> , 2005, 71, 037103.	2.1	167
63	STEADY STATES OF EPIDEMIC SPREADING IN SMALL-WORLD NETWORKS. <i>International Journal of Modern Physics C</i> , 2004, 15, 1471-1477.	1.7	6
64	Many-body interactions and the melting of colloidal crystals. <i>Journal of Chemical Physics</i> , 2003, 119, 4971-4985.	3.0	53
65	Many-body interactions in colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S263-S268.	1.8	29
66	Effect of Size Polydispersity on Melting of Charged Colloidal Systems. <i>Chinese Physics Letters</i> , 2003, 20, 1626-1629.	3.3	8
67	Coupling parameter in synchronization of diluted neural networks. <i>Physical Review E</i> , 2002, 65, 041916.	2.1	12
68	Macroscopic dynamics in separable neural networks. <i>Physical Review E</i> , 2001, 63, 041901.	2.1	2
69	THE ATTRACTORS IN SEQUENCE PROCESSING NEURAL NETWORKS. <i>International Journal of Modern Physics C</i> , 2000, 11, 33-39.	1.7	2