

Jun Tang

List of Publications by Year in descending order

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69
papers

2,466
citations

186265

28
h-index

197818

49
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69
all docs

69
docs citations

69
times ranked

1012
citing authors

#	ARTICLE	IF	CITATIONS
1	A review for dynamics in neuron and neuronal network. <i>Nonlinear Dynamics</i> , 2017, 89, 1569-1578.	5.2	332
2	A review for dynamics of collective behaviors of network of neurons. <i>Science China Technological Sciences</i> , 2015, 58, 2038-2045.	4.0	215
3	A physical view of computational neurodynamics. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 639-659.	2.4	125
4	Transition of electric activity of neurons induced by chemical and electric autapses. <i>Science China Technological Sciences</i> , 2015, 58, 1007-1014.	4.0	124
5	Wave emitting and propagation induced by autapse in a forward feedback neuronal network. <i>Neurocomputing</i> , 2015, 167, 378-389.	5.9	113
6	A class of initials-dependent dynamical systems. <i>Applied Mathematics and Computation</i> , 2017, 298, 65-76.	2.2	99
7	Phase coupling synchronization of FHN neurons connected by a Josephson junction. <i>Science China Technological Sciences</i> , 2020, 63, 2328-2338.	4.0	87
8	Electromagnetic induction and radiation-induced abnormality of wave propagation in excitable media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 486, 508-516.	2.6	78
9	Delay and diversity-induced synchronization transitions in a small-world neuronal network. <i>Physical Review E</i> , 2011, 83, 046207.	2.1	77
10	Minireview on signal exchange between nonlinear circuits and neurons via field coupling. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1907-1924.	2.6	70
11	Astrocyte calcium wave induces seizure-like behavior in neuron network. <i>Science China Technological Sciences</i> , 2017, 60, 1011-1018.	4.0	62
12	Spiral wave death, breakup induced by ion channel poisoning on regular Hodgkin-Huxley neuronal networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4281-4293.	3.3	51
13	Clarify the physical process for fractional dynamical systems. <i>Nonlinear Dynamics</i> , 2020, 100, 2353-2364.	5.2	48
14	Formation of Autapse Connected to Neuron and Its Biological Function. <i>Complexity</i> , 2017, 2017, 1-9.	1.6	47
15	Energy dependence on modes of electric activities of neuron driven by multi-channel signals. <i>Nonlinear Dynamics</i> , 2017, 89, 1967-1987.	5.2	46
16	Dynamic transition of neuronal firing induced by abnormal astrocytic glutamate oscillation. <i>Scientific Reports</i> , 2016, 6, 32343.	3.3	45
17	Simulating the electric activity of FitzHugh-Nagumo neuron by using Josephson junction model. <i>Nonlinear Dynamics</i> , 2012, 69, 2169-2179.	5.2	41
18	Robustness and breakup of the spiral wave in a two-dimensional lattice network of neurons. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 672-679.	5.1	38

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19	Noise and delay sustained chimera state in small world neuronal network. Science China Technological Sciences, 2019, 62, 1134-1140.	4.0	37
20	Spiral Wave in Small-World Networks of Hodgkin-Huxley Neurons. Communications in Theoretical Physics, 2010, 54, 583-588.	2.5	35
21	Effect of calcium channel noise in astrocytes on neuronal transmission. Communications in Nonlinear Science and Numerical Simulation, 2016, 32, 262-272.	3.3	35
22	Selection of Multiarmed Spiral Waves in a Regular Network of Neurons. PLoS ONE, 2013, 8, e69251.	2.5	34
23	Information Transmission in a Neuron-Astrocyte Coupled Model. PLoS ONE, 2013, 8, e80324.	2.5	33
24	Heterogeneous delay-induced asynchrony and resonance in a small-world neuronal network system. Europhysics Letters, 2016, 114, 50006.	2.0	32
25	Crack synchronization of chaotic circuits under field coupling. Nonlinear Dynamics, 2018, 93, 2057-2069.	5.2	32
26	Autaptic Modulation of Electrical Activity in a Network of Neuron-Coupled Astrocyte. Complexity, 2017, 2017, 1-13.	1.6	31
27	A constructive role of internal noise on coherence resonance induced by external noise in a calcium oscillation system. Chaos, Solitons and Fractals, 2009, 41, 273-283.	5.1	30
28	Mode selection in a neuron driven by Josephson junction current in presence of magnetic field. Chinese Journal of Physics, 2021, 71, 72-84.	3.9	30
29	Multiplicative-noise-induced coherence resonance via two different mechanisms in bistable neural models. Physical Review E, 2008, 77, 061905.	2.1	29
30	Instability and Death of Spiral Wave in a Two-Dimensional Array of Hindmarsh-Rose Neurons. Communications in Theoretical Physics, 2010, 53, 382-388.	2.5	28
31	COLLECTIVE BEHAVIORS OF SPIRAL WAVES IN THE NETWORKS OF HODGKIN-HUXLEY NEURONS IN PRESENCE OF CHANNEL NOISE. Journal of Biological Systems, 2010, 18, 243-259.	1.4	25
32	Local pacing, noise induced ordered wave in a 2D lattice of neurons. Neurocomputing, 2016, 207, 398-407.	5.9	22
33	Suppression of spiral wave and turbulence by using amplitude restriction of variable in a local square area. Chaos, Solitons and Fractals, 2009, 41, 1331-1339.	5.1	20
34	TRANSITION OF ORDERED WAVES IN NEURONAL NETWORK INDUCED BY DIFFUSIVE POISONING OF ION CHANNELS. Journal of Biological Systems, 2013, 21, 1350002.	1.4	20
35	Eliminate spiral wave in excitable media by using a new feasible scheme. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1768-1776.	3.3	18
36	Force exerted on the spiral tip by the heterogeneity in an excitable medium. Europhysics Letters, 2013, 104, 58005.	2.0	18

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37	The influence of diversity on spiral wave in the cardiac tissue. <i>Europhysics Letters</i> , 2012, 97, 28003.	2.0	17
38	Dynamic transition on the seizure-like neuronal activity by astrocytic calcium channel block. <i>Chaos, Solitons and Fractals</i> , 2016, 91, 702-708.	5.1	17
39	Defects formation and wave emitting from defects in excitable media. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 34, 55-65.	3.3	17
40	Noise effect on persistence of memory in a positive-feedback gene regulatory circuit. <i>Physical Review E</i> , 2009, 80, 011907.	2.1	16
41	A theoretical modeling for frequency modulation of Ca ²⁺ signal on activation of MAPK cascade. <i>Biophysical Chemistry</i> , 2011, 157, 33-42.	2.8	16
42	Detection of noise effect on coupled neuronal circuits. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 29, 170-178.	3.3	15
43	Suppression of the Spiral Wave and Turbulence in the Excitability-Modulated Media. <i>International Journal of Theoretical Physics</i> , 2009, 48, 150-157.	1.2	14
44	The dynamics of spiral tip adjacent to inhomogeneity in cardiac tissue. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 340-346.	2.6	14
45	Spiral waves in systems with fractal heterogeneity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 5764-5771.	2.6	13
46	Ca ²⁺ spiral waves in a spatially discrete and random medium. <i>European Biophysics Journal</i> , 2009, 38, 1061-1068.	2.2	12
47	PROPAGATION AND SYNCHRONIZATION OF Ca ²⁺ SPIRAL WAVES IN EXCITABLE MEDIA. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 587-601.	1.7	12
48	The influence of autapse on synchronous firing in small-world neural networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 594, 126956.	2.6	12
49	Numerical study of IP ₃ -dependent Ca ²⁺ spiral waves in <i>Xenopus</i> oocytes. <i>Europhysics Letters</i> , 2008, 83, 68001.	2.0	11
50	Collapse of Synchronization in a Memristive Network. <i>Communications in Theoretical Physics</i> , 2015, 64, 659-664.	2.5	9
51	DYNAMICS OF SPIRAL WAVE IN THE COUPLED HODGKIN-HUXLEY NEURONS. <i>International Journal of Modern Physics B</i> , 2010, 24, 4555-4562.	2.0	7
52	Study of spatial signal transduction in bistable switches. <i>Frontiers of Physics</i> , 2016, 11, 1.	5.0	7
53	Parametric wave induces straight drift of spiral waves in excitable medium. <i>Europhysics Letters</i> , 2017, 119, 58002.	2.0	7
54	Theoretical study of mesoscopic stochastic mechanism and effects of finite size on cell cycle of fission yeast. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 323-334.	2.6	6

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55	Critical condition for the occurrence of a noise-reduction effect. <i>Physical Review E</i> , 2008, 77, 022902.	2.1	6
56	Controlling intracellular Ca ²⁺ spiral waves by the local agonist in the cell membrane. <i>Chinese Physics B</i> , 2010, 19, 030508.	1.4	6
57	Thermally driven spin-Seebeck transport in chiral dsDNA-based molecular devices. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	5
58	Robustness of Diversity Induced Synchronization Transition in a Delayed Small-World Neuronal Network. <i>Chinese Physics Letters</i> , 2011, 28, 100501.	3.3	4
59	Damped oscillations in a multiple delayed feedback NF- κ B signaling module. <i>European Biophysics Journal</i> , 2015, 44, 677-684.	2.2	4
60	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
61	Quantifying the Attractive Force Exerted on the Pinned Calcium Spiral Waves by Using the Adventive Field. <i>Chinese Physics Letters</i> , 2013, 30, 118701.	3.3	3
62	Numerical study of IP ₃ -induced Ca ²⁺ spiral pattern evolution. <i>Chinese Physics B</i> , 2008, 17, 4100-4106.	1.4	2
63	Influence of Noise on Stability of the Ecosystem. <i>Communications in Theoretical Physics</i> , 2013, 60, 510-514.	2.5	1
64	Complex-Periodic Spiral Waves Induced by Linearly Polarized Electric Field in the Excitable Medium. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950071.	1.7	1
65	Approximating the energy landscape of a two-dimensional bistable gene autoregulation model by separating slow and fast dynamics. <i>Physical Review E</i> , 2019, 99, 012415.	2.1	1
66	Influence of time delay on the memory in a gene regulatory circuit. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 068702.	0.5	1
67	Transversal line defects induced by an electric field in a period-2 oscillatory medium. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 3219-3225.	3.3	0
68	Understanding noise-controlled 2D bistable switch by approximating 1D potential. <i>Nonlinear Dynamics</i> , 2021, 104, 1405-1414.	5.2	0
69	Unpinning the spiral waves by using parameter waves*. <i>Chinese Physics B</i> , 2021, 30, 058202.	1.4	0