

# 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  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1012  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Mode selection in a neuron driven by Josephson junction current in presence of magnetic field. <i>Chinese Journal of Physics</i> , 2021, 71, 72-84.	3.9	30
3	Understanding noise-controlled 2D bistable switch by approximating 1D potential. <i>Nonlinear Dynamics</i> , 2021, 104, 1405-1414.	5.2	0
4	Unpinning the spiral waves by using parameter waves*. <i>Chinese Physics B</i> , 2021, 30, 058202.	1.4	0
5	Clarify the physical process for fractional dynamical systems. <i>Nonlinear Dynamics</i> , 2020, 100, 2353-2364.	5.2	48
6	Phase coupling synchronization of FHN neurons connected by a Josephson junction. <i>Science China Technological Sciences</i> , 2020, 63, 2328-2338.	4.0	87
7	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
8	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
9	A physical view of computational neurodynamics. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 639-659.	2.4	125
10	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
11	Noise and delay sustained chimera state in small world neuronal network. <i>Science China Technological Sciences</i> , 2019, 62, 1134-1140.	4.0	37
12	Thermally driven spin-Seebeck transport in chiral dsDNA-based molecular devices. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	5
13	Crack synchronization of chaotic circuits under field coupling. <i>Nonlinear Dynamics</i> , 2018, 93, 2057-2069.	5.2	32
14	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
15	A review for dynamics in neuron and neuronal network. <i>Nonlinear Dynamics</i> , 2017, 89, 1569-1578.	5.2	332
16	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
17	Astrocyte calcium wave induces seizure-like behavior in neuron network. <i>Science China Technological Sciences</i> , 2017, 60, 1011-1018.	4.0	62
18	Parametric wave induces straight drift of spiral waves in excitable medium. <i>Europhysics Letters</i> , 2017, 119, 58002.	2.0	7

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19	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
20	A class of initials-dependent dynamical systems. <i>Applied Mathematics and Computation</i> , 2017, 298, 65-76.	2.2	99
21	Formation of Autapse Connected to Neuron and Its Biological Function. <i>Complexity</i> , 2017, 2017, 1-9.	1.6	47
22	Autaptic Modulation of Electrical Activity in a Network of Neuron-Coupled Astrocyte. <i>Complexity</i> , 2017, 2017, 1-13.	1.6	31
23	Heterogeneous delay-induced asynchrony and resonance in a small-world neuronal network system. <i>Europhysics Letters</i> , 2016, 114, 50006.	2.0	32
24	Dynamic transition of neuronal firing induced by abnormal astrocytic glutamate oscillation. <i>Scientific Reports</i> , 2016, 6, 32343.	3.3	45
25	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
26	Effect of calcium channel noise in astrocytes on neuronal transmission. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 32, 262-272.	3.3	35
27	Local pacing, noise induced ordered wave in a 2D lattice of neurons. <i>Neurocomputing</i> , 2016, 207, 398-407.	5.9	22
28	Study of spatial signal transduction in bistable switches. <i>Frontiers of Physics</i> , 2016, 11, 1.	5.0	7
29	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
30	Collapse of Synchronization in a Memristive Network. <i>Communications in Theoretical Physics</i> , 2015, 64, 659-664.	2.5	9
31	A review for dynamics of collective behaviors of network of neurons. <i>Science China Technological Sciences</i> , 2015, 58, 2038-2045.	4.0	215
32	Wave emitting and propagation induced by autapse in a forward feedback neuronal network. <i>Neurocomputing</i> , 2015, 167, 378-389.	5.9	113
33	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
34	Detection of noise effect on coupled neuronal circuits. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 29, 170-178.	3.3	15
35	Damped oscillations in a multiple delayed feedback NF- $\kappa$ B signaling module. <i>European Biophysics Journal</i> , 2015, 44, 677-684.	2.2	4
36	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

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37	Transversal line defects induced by an electric field in a period-2 oscillatory medium. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3219-3225.	3.3	0
38	Spiral waves in systems with fractal heterogeneity. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5764-5771.	2.6	13
39	Influence of Noise on Stability of the Ecosystem. Communications in Theoretical Physics, 2013, 60, 510-514.	2.5	1
40	Force exerted on the spiral tip by the heterogeneity in an excitable medium. Europhysics Letters, 2013, 104, 58005.	2.0	18
41	Quantifying the Attractive Force Exerted on the Pinned Calcium Spiral Waves by Using the Adventive Field. Chinese Physics Letters, 2013, 30, 118701.	3.3	3
42	TRANSITION OF ORDERED WAVES IN NEURONAL NETWORK INDUCED BY DIFFUSIVE POISONING OF ION CHANNELS. Journal of Biological Systems, 2013, 21, 1350002.	1.4	20
43	Selection of Multiarmed Spiral Waves in a Regular Network of Neurons. PLoS ONE, 2013, 8, e69251.	2.5	34
44	Information Transmission in a Neuron-Astrocyte Coupled Model. PLoS ONE, 2013, 8, e80324.	2.5	33
45	The influence of diversity on spiral wave in the cardiac tissue. Europhysics Letters, 2012, 97, 28003.	2.0	17
46	Spiral wave death, breakup induced by ion channel poisoning on regular Hodgkin-Huxley neuronal networks. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4281-4293.	3.3	51
47	Simulating the electric activity of FitzHugh-Nagumo neuron by using Josephson junction model. Nonlinear Dynamics, 2012, 69, 2169-2179.	5.2	41
48	A theoretical modeling for frequency modulation of Ca <sup>2+</sup> signal on activation of MAPK cascade. Biophysical Chemistry, 2011, 157, 33-42.	2.8	16
49	Delay and diversity-induced synchronization transitions in a small-world neuronal network. Physical Review E, 2011, 83, 046207.	2.1	77
50	Robustness of Diversity Induced Synchronization Transition in a Delayed Small-World Neuronal Network. Chinese Physics Letters, 2011, 28, 100501.	3.3	4
51	PROPAGATION AND SYNCHRONIZATION OF Ca <sup>2+</sup> SPIRAL WAVES IN EXCITABLE MEDIA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 587-601.	1.7	12
52	Robustness and breakup of the spiral wave in a two-dimensional lattice network of neurons. Science China: Physics, Mechanics and Astronomy, 2010, 53, 672-679.	5.1	38
53	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
54	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

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55	Controlling intracellular Ca <sup>2+</sup> spiral waves by the local agonist in the cell membrane. Chinese Physics B, 2010, 19, 030508.	1.4	6
56	DYNAMICS OF SPIRAL WAVE IN THE COUPLED HODGKIN-HUXLEY NEURONS. International Journal of Modern Physics B, 2010, 24, 4555-4562.	2.0	7
57	Spiral Wave in Small-World Networks of Hodgkin-Huxley Neurons. Communications in Theoretical Physics, 2010, 54, 583-588.	2.5	35
58	PARAMETER FLUCTUATION-INDUCED PATTERN TRANSITION IN THE COMPLEX GINZBURG-LANDAU EQUATION. International Journal of Modern Physics B, 2010, 24, 4481-4500.	2.0	3
59	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
60	Noise effect on persistence of memory in a positive-feedback gene regulatory circuit. Physical Review E, 2009, 80, 011907.	2.1	16
61	Suppression of the Spiral Wave and Turbulence in Excitability-Modulated Media. International Journal of Theoretical Physics, 2009, 48, 150-157.	1.2	14
62	Ca <sup>2+</sup> spiral waves in a spatially discrete and random medium. European Biophysics Journal, 2009, 38, 1061-1068.	2.2	12
63	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
64	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
65	Theoretical study of mesoscopic stochastic mechanism and effects of finite size on cell cycle of fission yeast. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 323-334.	2.6	6
66	Numerical study of IP <sub>3</sub> -induced Ca <sup>2+</sup> spiral pattern evolution. Chinese Physics B, 2008, 17, 4100-4106.	1.4	2
67	Critical condition for the occurrence of a noise-reduction effect. Physical Review E, 2008, 77, 022902.	2.1	6
68	Multiplicative-noise-induced coherence resonance via two different mechanisms in bistable neural models. Physical Review E, 2008, 77, 061905.	2.1	29
69	Numerical study of IP <sub>3</sub> -dependent Ca <sup>2+</sup> spiral waves in Xenopus oocytes. Europhysics Letters, 2008, 83, 68001.	2.0	11