

Ya Jia

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117
papers

4,353
citations

29
h-index

64
g-index

125
ext. papers

5,395
ext. citations

3.5
avg, IF

5.79
L-index

#	Paper	IF	Citations
117	Exon-intron circular RNAs regulate transcription in the nucleus. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 256-64	17.6	1604
116	Stochastic resonance in a bistable system subject to multiplicative and additive noise. <i>Physical Review E</i> , 2000 , 62, 1869-78	2.4	151
115	Reentrance Phenomena in a Bistable Kinetic Model Driven by Correlated Noise. <i>Physical Review Letters</i> , 1997 , 78, 994-997	7.4	129
114	Steady-state analysis of a bistable system with additive and multiplicative noises. <i>Physical Review E</i> , 1996 , 53, 5786-5792	2.4	107
113	Mode transition in electrical activities of neuron driven by high and low frequency stimulus in the presence of electromagnetic induction and radiation. <i>Nonlinear Dynamics</i> , 2018 , 91, 515-523	5	101
112	Fluctuations-induced switch in the gene transcriptional regulatory system. <i>Physical Review E</i> , 2004 , 70, 041907	2.4	100
111	Autaptic regulation of electrical activities in neuron under electromagnetic induction. <i>Scientific Reports</i> , 2017 , 7, 43452	4.9	93
110	Transient properties of a bistable kinetic model with correlations between additive and multiplicative noises: Mean first-passage time. <i>Physical Review E</i> , 1996 , 53, 5764-5768	2.4	92
109	Effects of colored noise on stochastic resonance in a bistable system subject to multiplicative and additive noise. <i>Physical Review E</i> , 2001 , 63, 031107	2.4	91
108	3DRobot: automated generation of diverse and well-packed protein structure decoys. <i>Bioinformatics</i> , 2016 , 32, 378-87	7.2	87
107	Synchronization between neurons coupled by memristor. <i>Chaos, Solitons and Fractals</i> , 2017 , 104, 435-443	3.3	84
106	Effects of ion channel blocks on electrical activity of stochastic Hodgkin-Huxley neural network under electromagnetic induction. <i>Neurocomputing</i> , 2018 , 283, 196-204	5.4	79
105	Collective responses in electrical activities of neurons under field coupling. <i>Scientific Reports</i> , 2018 , 8, 1349	4.9	78
104	Spiking activities in chain neural network driven by channel noise with field coupling. <i>Nonlinear Dynamics</i> , 2019 , 95, 3237-3247	5	59
103	Effects of noise and synaptic weight on propagation of subthreshold excitatory postsynaptic current signal in a feed-forward neural network. <i>Nonlinear Dynamics</i> , 2019 , 95, 1673-1686	5	54
102	Energy dependence on modes of electric activities of neuron driven by different external mixed signals under electromagnetic induction. <i>Science China Technological Sciences</i> , 2019 , 62, 427-440	3.5	52
101	Channel noise-induced phase transition of spiral wave in networks of Hodgkin-Huxley neurons. <i>Science Bulletin</i> , 2011 , 56, 151-157		52

100	Vibrational resonance induced by transition of phase-locking modes in excitable systems. <i>Physical Review E</i> , 2012 , 86, 016209	2.4	50
99	Propagation of firing rate by synchronization in a feed-forward multilayer HindmarshRose neural network. <i>Neurocomputing</i> , 2018 , 320, 60-68	5.4	45
98	Effects of a dye laser with correlations between additive and multiplicative noise: Transient properties. <i>Physical Review A</i> , 1995 , 51, 3196-3202	2.6	44
97	Enhancement of internal-noise coherence resonance by modulation of external noise in a circadian oscillator. <i>Physical Review E</i> , 2006 , 73, 041923	2.4	42
96	Electrical Mode Transition of Hybrid Neuronal Model Induced by External Stimulus and Electromagnetic Induction. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019 , 29, 1950156	2	41
95	Stochastic system with colored correlation between white noise and colored noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 252, 417-427	3.3	40
94	Wave propagation and synchronization induced by chemical autapse in chain HindmarshRose neural network. <i>Applied Mathematics and Computation</i> , 2019 , 352, 136-145	2.7	39
93	Inverse stochastic resonance in HodgkinHuxley neural system driven by Gaussian and non-Gaussian colored noises. <i>Nonlinear Dynamics</i> , 2020 , 100, 877-889	5	34
92	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	3.6	34
91	Vibrational mono-/bi-resonance and wave propagation in FitzHughNagumo neural systems under electromagnetic induction. <i>Chaos, Solitons and Fractals</i> , 2020 , 133, 109645	9.3	32
90	Mixed Stimulus-Induced Mode Selection in Neural Activity Driven by High and Low Frequency Current under Electromagnetic Radiation. <i>Complexity</i> , 2017 , 2017, 1-11	1.6	31
89	Protein structure prediction. <i>International Journal of Modern Physics B</i> , 2018 , 32,	1.1	28
88	Temperature effect on memristive ion channels. <i>Cognitive Neurodynamics</i> , 2019 , 13, 601-611	4.2	27
87	Multiplicative-noise-induced coherence resonance via two different mechanisms in bistable neural models. <i>Physical Review E</i> , 2008 , 77, 061905	2.4	25
86	A constructive role of internal noise on coherence resonance induced by external noise in a calcium oscillation system. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 273-283	9.3	24
85	Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. <i>Complexity</i> , 2018 , 2018, 1-13	1.6	23
84	Intrinsic noise in post-transcriptional gene regulation by small non-coding RNA. <i>Biophysical Chemistry</i> , 2009 , 143, 60-9	3.5	23
83	A theoretical study of effects of cytosolic Ca ²⁺ oscillations on activation of glycogen phosphorylase. <i>Biophysical Chemistry</i> , 2003 , 106, 193-202	3.5	23

82	Modeling of mesenchymal hybrid epithelial state and phenotypic transitions in EMT and MET processes of cancer cells. <i>Scientific Reports</i> , 2018 , 8, 14323	4.9	22
81	What is the best reference state for designing statistical atomic potentials in protein structure prediction?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 2311-22	4.2	21
80	Robustness and backbone motif of a cancer network regulated by miR-17-92 cluster during the G1/S transition. <i>PLoS ONE</i> , 2013 , 8, e57009	3.7	21
79	Propagation characteristics of weak signal in feedforward Izhikevich neural networks. <i>Nonlinear Dynamics</i> , 2020 , 99, 2355-2367	5	21
78	Development of spiral wave in a regular network of excitatory neurons due to stochastic poisoning of ion channels. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 3350-3364	3.7	19
77	Estimate the electrical activity in a neuron under depolarization field. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110522	9.3	19
76	Phase noise-induced coherence resonance in three dimension memristive Hindmarsh-Rose neuron model. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 2101-2110	2.3	18
75	Effects of patch temperature on spontaneous action potential train due to channel fluctuations: coherence resonance. <i>BioSystems</i> , 2005 , 81, 267-80	1.9	17
74	Effects of random potential on transport. <i>Physical Review E</i> , 2001 , 63, 052101	2.4	17
73	Autaptic modulation-induced neuronal electrical activities and wave propagation on network under electromagnetic induction. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 799-809	2.3	17
72	A kinetic model of multiple phenotypic states for breast cancer cells. <i>Scientific Reports</i> , 2017 , 7, 9890	4.9	16
71	Suppression of spiral wave and turbulence by using amplitude restriction of variable in a local square area. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 1331-1339	9.3	16
70	A mesoscopic stochastic mechanism of cytosolic calcium oscillations. <i>Biophysical Chemistry</i> , 2007 , 125, 201-12	3.5	16
69	Fluctuation and noise propagation in phenotypic transition cascades of clonal populations. <i>Physical Review E</i> , 2015 , 92, 012721	2.4	15
68	Ionic channel blockage in stochastic Hodgkin-Huxley neuronal model driven by multiple oscillatory signals. <i>Cognitive Neurodynamics</i> , 2020 , 14, 569-578	4.2	15
67	Eliminate spiral wave in excitable media by using a new feasible scheme. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1768-1776	3.7	15
66	Light-noise-induced suprathreshold circadian oscillations and coherent resonance in <i>Drosophila</i> . <i>Physical Review E</i> , 2005 , 72, 012902	2.4	15
65	Noise effect on persistence of memory in a positive-feedback gene regulatory circuit. <i>Physical Review E</i> , 2009 , 80, 011907	2.4	14

64	Noise Decomposition Principle in a Coherent Feed-Forward Transcriptional Regulatory Loop. <i>Frontiers in Physiology</i> , 2016 , 7, 600	4.6	14
63	Effects of temperature and electromagnetic induction on action potential of Hodgkin-Huxley model. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 767-776	2.3	13
62	Ca ²⁺ spiral waves in a spatially discrete and random medium. <i>European Biophysics Journal</i> , 2009 , 38, 1061-8	1.8	12
61	Effects of gap junction to Ca(2+) and to IP(3) on the synchronization of intercellular calcium oscillations in hepatocytes. <i>Biophysical Chemistry</i> , 2005 , 113, 145-54	3.5	12
60	Energy dependence on discharge mode of Izhikevich neuron driven by external stimulus under electromagnetic induction. <i>Cognitive Neurodynamics</i> , 2021 , 15, 265-277	4.2	12
59	Effects of time delays in a mathematical bone model. <i>Chinese Physics B</i> , 2017 , 26, 030503	1.2	10
58	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	2	10
57	The instability of the spiral wave induced by the deformation of elastic excitable media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 385105	2	10
56	Numerical study of IP 3 -dependent Ca 2+ spiral waves in Xenopus oocytes. <i>Europhysics Letters</i> , 2008 , 83, 68001	1.6	10
55	Phase synchronization and coherence resonance of stochastic calcium oscillations in coupled hepatocytes. <i>Biophysical Chemistry</i> , 2005 , 115, 37-47	3.5	10
54	Computational study of non-catalytic T-loop pocket on CDK proteins for drug development. <i>Chinese Physics B</i> , 2017 , 26, 128702	1.2	9
53	Fluctuations of cell population in a colonic crypt. <i>Physical Review E</i> , 2014 , 89, 032715	2.4	9
52	A mathematical model of a P53 oscillation network triggered by DNA damage. <i>Chinese Physics B</i> , 2010 , 19, 040506	1.2	9
51	TRANSITION OF SPIRAL WAVE IN A MODEL OF TWO-DIMENSIONAL ARRAYS OF HINDMARSHROSE NEURONS. <i>International Journal of Modern Physics B</i> , 2011 , 25, 1653-1670	1.1	9
50	A van der Waals-like Transition Between Normal and Cancerous Phases in Cell Populations Dynamics of Colorectal Cancer. <i>Scientific Reports</i> , 2016 , 6, 36620	4.9	8
49	Effects of Lycium barbarum Polysaccharides on Health and Aging of Depend on. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 6379493	6.7	8
48	Effects of electromagnetic induction on signal propagation and synchronization in multilayer Hindmarsh-Rose neural networks. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 2455-2464	2.3	8
47	RyR channels and glucose-regulated pancreatic beta-cells. <i>European Biophysics Journal</i> , 2008 , 37, 773-821.9	1.9	8

46	Correlated Noises of the Stochastic Processes. <i>Communications in Theoretical Physics</i> , 1995 , 23, 45-50	2.4	8
45	Synchronization mode transition induced by bounded noise in multiple time-delays coupled FitzHugh-Nagumo model. <i>Chaos, Solitons and Fractals</i> , 2021 , 147, 111000	9.3	8
44	A Network of Conformational Transitions Revealed by Molecular Dynamics Simulations of the Binary Complex of Escherichia coli 6-Hydroxymethyl-7,8-dihydropterin Pyrophosphokinase with MgATP. <i>Biochemistry</i> , 2016 , 55, 6931-6939	3.2	8
43	Effects of electric field on multiple vibrational resonances in Hindmarsh-Rose neuronal systems. <i>Chaos, Solitons and Fractals</i> , 2021 , 150, 111210	9.3	8
42	Phase synchronization and mode transition induced by multiple time delays and noises in coupled FitzHugh-Nagumo model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 535, 122419	3.3	7
41	Effects of intrinsic and extrinsic noises on transposons kinetics. <i>Chinese Physics B</i> , 2018 , 27, 030501	1.2	7
40	Effects of both glucose and IP3 concentrations on action potentials in pancreatic beta-cells. <i>European Biophysics Journal</i> , 2007 , 36, 187-97	1.9	7
39	Effects of inositol 1,4,5-trisphosphate receptor-mediated intracellular stochastic calcium oscillations on activation of glycogen phosphorylase. <i>Biophysical Chemistry</i> , 2004 , 110, 179-90	3.5	7
38	Can a Correlation Ratchet Operate Under Spatial Symmetry and Temporal Symmetry?. <i>Chinese Physics Letters</i> , 1998 , 15, 315-317	1.8	7
37	Mode transition and energy dependence of FitzHugh-Nagumo neural model driven by high-low frequency electromagnetic radiation. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 120, 153209	2.8	6
36	Enhancement of tunability of MAPK cascade due to coexistence of processive and distributive phosphorylation mechanisms. <i>Biophysical Journal</i> , 2014 , 106, 1215-26	2.9	6
35	DYNAMICS OF SPIRAL WAVE IN THE COUPLED HODGKIN-HUXLEY NEURONS. <i>International Journal of Modern Physics B</i> , 2010 , 24, 4555-4562	1.1	6
34	Mean-field coupling of calcium oscillations in a multicellular system of rat hepatocytes. <i>Biophysical Chemistry</i> , 2007 , 125, 247-53	3.5	6
33	Study on propagation efficiency and fidelity of subthreshold signal in feed-forward hybrid neural network under electromagnetic radiation. <i>Nonlinear Dynamics</i> , 2021 , 103, 2627-2643	5	6
32	Noise decomposition algorithm and propagation mechanism in feed-forward gene transcriptional regulatory loop. <i>Chinese Physics B</i> , 2018 , 27, 028706	1.2	5
31	Effects of temporally correlated noise on coherence resonance chimeras in FitzHugh-Nagumo neurons. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	5
30	Critical condition for the occurrence of a noise-reduction effect. <i>Physical Review E</i> , 2008 , 77, 022902	2.4	5
29	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	3.3	5

28	Influence of Random Potentials on the Current of the Molecular Motor Model. <i>Chinese Physics Letters</i> , 2001 , 18, 1431-1434	1.8	5
27	Effects of temperature and ion channel blocks on propagation of action potential in myelinated axons. <i>Chaos</i> , 2021 , 31, 053102	3.3	5
26	HKPocket: human kinase pocket database for drug design. <i>BMC Bioinformatics</i> , 2019 , 20, 617	3.6	5
25	Chaotic resonance in Izhikevich neural network motifs under electromagnetic induction. <i>Nonlinear Dynamics</i> , 2022 , 107, 3945	5	4
24	Influence of the Gaussian colored noise and electromagnetic radiation on the propagation of subthreshold signals in feedforward neural networks. <i>Science China Technological Sciences</i> , 2021 , 64, 847-857	3.5	4
23	Effect of external periodic signals and electromagnetic radiation on autaptic regulation of neuronal firing. <i>IET Systems Biology</i> , 2018 , 12, 177-184	1.4	4
22	Novel method to identify group-specific non-catalytic pockets of human kinome for drug design.. <i>RSC Advances</i> , 2020 , 10, 2004-2015	3.7	3
21	A theoretical study on activation of transcription factor modulated by intracellular Ca ²⁺ oscillations. <i>Biophysical Chemistry</i> , 2007 , 129, 49-55	3.5	3
20	A Stochastic Theory of dc Superconducting Quantum Interference Device Responsivity in the Presence of Thermal Fluctuations. <i>Chinese Physics Letters</i> , 2002 , 19, 758-761	1.8	3
19	EFFECTS OF CORRELATED NOISES ON CURRENT. <i>International Journal of Modern Physics B</i> , 2000 , 14, 507-519	1.1	3
18	Effects of chaotic activity and time delay on signal transmission in FitzHugh-Nagumo neuronal system. <i>Cognitive Neurodynamics</i> , 1	4.2	3
17	A computational study of Tat-CDK9-Cyclin binding dynamics and its implication in transcription-dependent HIV latency. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 25474-25482	3.6	3
16	The dynamical roles of miR-17-92 on the E2F-related network during the G1/S transition. <i>Nonlinear Dynamics</i> , 2019 , 95, 259-271	5	3
15	Intrinsic fluctuation and susceptibility in somatic cell reprogramming process. <i>Chinese Physics B</i> , 2019 , 28, 040503	1.2	2
14	The effects of electrical coupling on the temporal coding of neural signal in noisy Hodgkin-Huxley neuron ensemble 2010 ,		2
13	Numerical study of IP 3 -induced Ca ²⁺ spiral pattern evolution. <i>Chinese Physics B</i> , 2008 , 17, 4100-4106	1.2	2
12	An analysis theory of symmetric dc SQUID driven by thermal noises. <i>Superconductor Science and Technology</i> , 2003 , 16, 437-443	3.1	2
11	Direct sum matrix game with prisoner's dilemma and snowdrift game. <i>PLoS ONE</i> , 2013 , 8, e81855	3.7	2

10	Protein structure prediction. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016 , 65, 178701	0.6	2
9	Cluster synchronization and firing rate oscillation induced by time delay in random network of adaptive exponential integrate-and-fire neural system. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	2
8	Synergy and Redundancy in a Signaling Cascade with Different Feedback Mechanisms. <i>Communications in Theoretical Physics</i> , 2018 , 70, 485	2.4	2
7	Synchronization mode transitions induced by chaos in modified Morris-Lecar neural systems with weak coupling. <i>Nonlinear Dynamics</i> , 1	5	2
6	Effects of bounded noise and time delay on signal transmission in excitable neural networks. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111929	9.3	2
5	Non-Gaussian noise and autapse-induced inverse stochastic resonance in bistable Izhikevich neural system under electromagnetic induction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 127274	3.2	1
4	Memory function of memristive Hindmarsh-Rose model driven by colored noise and electromagnetic induction. <i>International Journal of Modern Physics B</i> , 2150117	1.1	0
3	Effects of noise and time delay on E2F5 expression level in a bistable Rb-E2F gene's regulatory network. <i>IET Systems Biology</i> , 2021 , 15, 111-125	1.4	0
2	A theoretical study on the cross-talk of stress regulatory pathways in root cells. <i>Biophysical Chemistry</i> , 2018 , 240, 82-87	3.5	
1	Effects of quantum noise in a dye-laser model. <i>Physical Review A</i> , 1997 , 55, 2475-2477	2.6	