Ya Jia

List of Publications by Year in Descending Order

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	Chaotic resonance in Izhikevich neural network motifs under electromagnetic induction. *Nonlinear Dynamics*, **2022**, 107, 3945	5	4
116	Non-Gaussian noise and autapse-induced inverse stochastic resonance in bistable Izhikevich neural system under electromagnetic induction. *Physica A: Statistical Mechanics and Its Applications*, **2022**, 127274	3.3	1
115	Effects of bounded noise and time delay on signal transmission in excitable neural networks. *Chaos, Solitons and Fractals*, **2022**, 157, 111929	9.3	2
114	Influence of the Gaussian colored noise and electromagnetic radiation on the propagation of subthreshold signals in feedforward neural networks. *Science China Technological Sciences*, **2021**, 64, 847-857	3.5	4
113	Effects of noise and time delay on E2FS expression level in a bistable Rb-E2F genes regulatory network. *IET Systems Biology*, **2021**, 15, 111-125	1.4	0
112	Effects of temperature and ion channel blocks on propagation of action potential in myelinated axons. *Chaos*, **2021**, 31, 053102	3.3	5
111	Synchronization mode transition induced by bounded noise in multiple time-delays coupled FitzHughNagumo model. *Chaos, Solitons and Fractals*, **2021**, 147, 111000	9.3	8
110	Energy dependence on discharge mode of Izhikevich neuron driven by external stimulus under electromagnetic induction. *Cognitive Neurodynamics*, **2021**, 15, 265-277	4.2	12
109	Estimate the electrical activity in a neuron under depolarization field. *Chaos, Solitons and Fractals*, **2021**, 142, 110522	9.3	19
108	Study on propagation efficiency and fidelity of subthreshold signal in feed-forward hybrid neural network under electromagnetic radiation. *Nonlinear Dynamics*, **2021**, 103, 2627-2643	5	6
107	Effects of electric field on multiple vibrational resonances in Hindmarsh-Rose neuronal systems. *Chaos, Solitons and Fractals*, **2021**, 150, 111210	9.3	8
106	Ionic channel blockage in stochastic Hodgkin-Huxley neuronal model driven by multiple oscillatory signals. *Cognitive Neurodynamics*, **2020**, 14, 569-578	4.2	15
105	Inverse stochastic resonance in HodgkinHuxley neural system driven by Gaussian and non-Gaussian colored noises. *Nonlinear Dynamics*, **2020**, 100, 877-889	5	34
104	Novel method to identify group-specific non-catalytic pockets of human kinome for drug design.. *RSC Advances*, **2020**, 10, 2004-2015	3.7	3
103	Vibrational mono-/bi-resonance and wave propagation in FitzHughNagumo neural systems under electromagnetic induction. *Chaos, Solitons and Fractals*, **2020**, 133, 109645	9.3	32
102	Mode transition and energy dependence of FitzHugh-Nagumo neural model driven by high-low frequency electromagnetic radiation. *AEU - International Journal of Electronics and Communications*, **2020**, 120, 153209	2.8	6
101	Propagation characteristics of weak signal in feedforward Izhikevich neural networks. *Nonlinear Dynamics*, **2020**, 99, 2355-2367	5	21

100	A computational study of Tat-CDK9-Cyclin binding dynamics and its implication in transcription-dependent HIV latency. *Physical Chemistry Chemical Physics*, **2020**, 22, 25474-25482	3.6	3
99	Cluster synchronization and firing rate oscillation induced by time delay in random network of adaptive exponential integrate-and-fire neural system. *European Physical Journal B*, **2020**, 93, 1	1.2	2
98	Spiking activities in chain neural network driven by channel noise with field coupling. *Nonlinear Dynamics*, **2019**, 95, 3237-3247	5	59
97	Phase noise-induced coherence resonance in three dimension memristive Hindmarsh-Rose neuron model. *European Physical Journal: Special Topics*, **2019**, 228, 2101-2110	2.3	18
96	Phase synchronization and mode transition induced by multiple time delays and noises in coupled FitzHugh-Nagumo model. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122419	3.3	7
95	Energy dependence on modes of electric activities of neuron driven by different external mixed signals under electromagnetic induction. *Science China Technological Sciences*, **2019**, 62, 427-440	3.5	52
94	Intrinsic fluctuation and susceptibility in somatic cell reprogramming process. *Chinese Physics B*, **2019**, 28, 040503	1.2	2
93	Temperature effect on memristive ion channels. *Cognitive Neurodynamics*, **2019**, 13, 601-611	4.2	27
92	Effects of Lycium barbarum Polysaccharides on Health and Aging of Depend on. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 6379493	6.7	8
91	Effects of electromagnetic induction on signal propagation and synchronization in multilayer Hindmarsh-Rose neural networks. *European Physical Journal: Special Topics*, **2019**, 228, 2455-2464	2.3	8
90	Effects of temporally correlated noise on coherence resonance chimeras in FitzHugh-Nagumo neurons. *European Physical Journal B*, **2019**, 92, 1	1.2	5
89	Electrical Mode Transition of Hybrid Neuronal Model Induced by External Stimulus and Electromagnetic Induction. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2019**, 29, 1950156	2	41
88	Wave propagation and synchronization induced by chemical autapse in chain Hindmarsh-Rose neural network. *Applied Mathematics and Computation*, **2019**, 352, 136-145	2.7	39
87	HKPocket: human kinase pocket database for drug design. *BMC Bioinformatics*, **2019**, 20, 617	3.6	5
86	Effects of noise and synaptic weight on propagation of subthreshold excitatory postsynaptic current signal in a feed-forward neural network. *Nonlinear Dynamics*, **2019**, 95, 1673-1686	5	54
85	The dynamical roles of miR-17-92 on the E2F-related network during the G1/S transition. *Nonlinear Dynamics*, **2019**, 95, 259-271	5	3
84	Effects of intrinsic and extrinsic noises on transposons kinetics. *Chinese Physics B*, **2018**, 27, 030501	1.2	7
83	Collective responses in electrical activities of neurons under field coupling. *Scientific Reports*, **2018**, 8, 1349	4.9	78

82	Effects of ion channel blocks on electrical activity of stochastic Hodgkin–Huxley neural network under electromagnetic induction. *Neurocomputing*, **2018**, 283, 196-204	5.4	79
81	Protein structure prediction. *International Journal of Modern Physics B*, **2018**, 32,	1.1	28
80	Noise decomposition algorithm and propagation mechanism in feed-forward gene transcriptional regulatory loop. *Chinese Physics B*, **2018**, 27, 028706	1.2	5
79	A theoretical study on the cross-talk of stress regulatory pathways in root cells. *Biophysical Chemistry*, **2018**, 240, 82-87	3.5	
78	Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. *Complexity*, **2018**, 2018, 1-13	1.6	23
77	Effect of external periodic signals and electromagnetic radiation on autaptic regulation of neuronal firing. *IET Systems Biology*, **2018**, 12, 177-184	1.4	4
76	Mode transition in electrical activities of neuron driven by high and low frequency stimulus in the presence of electromagnetic induction and radiation. *Nonlinear Dynamics*, **2018**, 91, 515-523	5	101
75	Modeling of mesenchymal hybrid epithelial state and phenotypic transitions in EMT and MET processes of cancer cells. *Scientific Reports*, **2018**, 8, 14323	4.9	22
74	Propagation of firing rate by synchronization in a feed-forward multilayer Hindmarsh–Rose neural network. *Neurocomputing*, **2018**, 320, 60-68	5.4	45
73	Autaptic modulation-induced neuronal electrical activities and wave propagation on network under electromagnetic induction. *European Physical Journal: Special Topics*, **2018**, 227, 799-809	2.3	17
72	Synergy and Redundancy in a Signaling Cascade with Different Feedback Mechanisms. *Communications in Theoretical Physics*, **2018**, 70, 485	2.4	2
71	Effects of temperature and electromagnetic induction on action potential of Hodgkin–Huxley model. *European Physical Journal: Special Topics*, **2018**, 227, 767-776	2.3	13
70	Autaptic regulation of electrical activities in neuron under electromagnetic induction. *Scientific Reports*, **2017**, 7, 43452	4.9	93
69	Effects of time delays in a mathematical bone model. *Chinese Physics B*, **2017**, 26, 030503	1.2	10
68	Synchronization between neurons coupled by memristor. *Chaos, Solitons and Fractals*, **2017**, 104, 435-442	2.3	84
67	A kinetic model of multiple phenotypic states for breast cancer cells. *Scientific Reports*, **2017**, 7, 9890	4.9	16
66	Computational study of non-catalytic T-loop pocket on CDK proteins for drug development. *Chinese Physics B*, **2017**, 26, 128702	1.2	9
65	Mixed Stimulus-Induced Mode Selection in Neural Activity Driven by High and Low Frequency Current under Electromagnetic Radiation. *Complexity*, **2017**, 2017, 1-11	1.6	31

64	A van der Waals-like Transition Between Normal and Cancerous Phases in Cell Populations Dynamics of Colorectal Cancer. *Scientific Reports*, **2016**, 6, 36620	4.9	8
63	3DRobot: automated generation of diverse and well-packed protein structure decoys. *Bioinformatics*, **2016**, 32, 378-87	7.2	87
62	Protein structure prediction. *Wuli Xuebao/Acta Physica Sinica*, **2016**, 65, 178701	0.6	2
61	Noise Decomposition Principle in a Coherent Feed-Forward Transcriptional Regulatory Loop. *Frontiers in Physiology*, **2016**, 7, 600	4.6	14
60	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. *Biochemistry*, **2016**, 55, 6931-6939	3.2	8
59	Fluctuation and noise propagation in phenotypic transition cascades of clonal populations. *Physical Review E*, **2015**, 92, 012721	2.4	15
58	Exon-intron circular RNAs regulate transcription in the nucleus. *Nature Structural and Molecular Biology*, **2015**, 22, 256-64	17.6	1604
57	Fluctuations of cell population in a colonic crypt. *Physical Review E*, **2014**, 89, 032715	2.4	9
56	Enhancement of tunability of MAPK cascade due to coexistence of processive and distributive phosphorylation mechanisms. *Biophysical Journal*, **2014**, 106, 1215-26	2.9	6
55	Development of spiral wave in a regular network of excitatory neurons due to stochastic poisoning of ion channels. *Communications in Nonlinear Science and Numerical Simulation*, **2013**, 18, 3350-3364	3.7	19
54	Robustness and backbone motif of a cancer network regulated by miR-17-92 cluster during the G1/S transition. *PLoS ONE*, **2013**, 8, e57009	3.7	21
53	Direct sum matrix game with prisoners's dilemma and snowdrift game. *PLoS ONE*, **2013**, 8, e81855	3.7	2
52	What is the best reference state for designing statistical atomic potentials in protein structure prediction?. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 2311-22	4.2	21
51	Vibrational resonance induced by transition of phase-locking modes in excitable systems. *Physical Review E*, **2012**, 86, 016209	2.4	50
50	Channel noise-induced phase transition of spiral wave in networks of Hodgkin-Huxley neurons. *Science Bulletin*, **2011**, 56, 151-157		52
49	TRANSITION OF SPIRAL WAVE IN A MODEL OF TWO-DIMENSIONAL ARRAYS OF HINDMARSHROSE NEURONS. *International Journal of Modern Physics B*, **2011**, 25, 1653-1670	1.1	9
48	PROPAGATION AND SYNCHRONIZATION OF Ca2+ SPIRAL WAVES IN EXCITABLE MEDIA. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2011**, 21, 587-601	2	10
47	DYNAMICS OF SPIRAL WAVE IN THE COUPLED HODGKINHUXLEY NEURONS. *International Journal of Modern Physics B*, **2010**, 24, 4555-4562	1.1	6

46	A mathematical model of a P53 oscillation network triggered by DNA damage. *Chinese Physics B*, **2010**, 19, 040506	1.2	9
45	The effects of electrical coupling on the temporal coding of neural signal in noisy Hodgkin-Huxley neuron ensemble **2010**,		2
44	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	3.6	34
43	Eliminate spiral wave in excitable media by using a new feasible scheme. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 1768-1776	3.7	15
42	Noise effect on persistence of memory in a positive-feedback gene regulatory circuit. *Physical Review E*, **2009**, 80, 011907	2.4	14
41	Ca2+ spiral waves in a spatially discrete and random medium. *European Biophysics Journal*, **2009**, 38, 1061-8	1.9	12
40	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	9.3	24
39	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	9.3	16
38	Intrinsic noise in post-transcriptional gene regulation by small non-coding RNA. *Biophysical Chemistry*, **2009**, 143, 60-9	3.5	23
37	Numerical study of IP 3 -induced Ca 2+ spiral pattern evolution. *Chinese Physics B*, **2008**, 17, 4100-4106	1.2	2
36	The instability of the spiral wave induced by the deformation of elastic excitable media. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 385105	2	10
35	Critical condition for the occurrence of a noise-reduction effect. *Physical Review E*, **2008**, 77, 022902	2.4	5
34	Multiplicative-noise-induced coherence resonance via two different mechanisms in bistable neural models. *Physical Review E*, **2008**, 77, 061905	2.4	25
33	Numerical study of IP 3 -dependent Ca 2+ spiral waves in Xenopus oocytes. *Europhysics Letters*, **2008**, 83, 68001	1.6	10
32	RyR channels and glucose-regulated pancreatic beta-cells. *European Biophysics Journal*, **2008**, 37, 773-82	1.9	8
31	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	3.3	5
30	A mesoscopic stochastic mechanism of cytosolic calcium oscillations. *Biophysical Chemistry*, **2007**, 125, 201-12	3.5	16
29	A theoretical study on activation of transcription factor modulated by intracellular Ca2+ oscillations. *Biophysical Chemistry*, **2007**, 129, 49-55	3.5	3

28	Effects of both glucose and IP3 concentrations on action potentials in pancreatic beta-cells. *European Biophysics Journal*, **2007**, 36, 187-97	1.9	7
27	Mean-field coupling of calcium oscillations in a multicellular system of rat hepatocytes. *Biophysical Chemistry*, **2007**, 125, 247-53	3.5	6
26	Enhancement of internal-noise coherence resonance by modulation of external noise in a circadian oscillator. *Physical Review E*, **2006**, 73, 041923	2.4	42
25	Effects of patch temperature on spontaneous action potential train due to channel fluctuations: coherence resonance. *BioSystems*, **2005**, 81, 267-80	1.9	17
24	Effects of gap junction to Ca(2+) and to IP(3) on the synchronization of intercellular calcium oscillations in hepatocytes. *Biophysical Chemistry*, **2005**, 113, 145-54	3.5	12
23	Phase synchronization and coherence resonance of stochastic calcium oscillations in coupled hepatocytes. *Biophysical Chemistry*, **2005**, 115, 37-47	3.5	10
22	Light-noise-induced suprathreshold circadian oscillations and coherent resonance in Drosophila. *Physical Review E*, **2005**, 72, 012902	2.4	15
21	Fluctuations-induced switch in the gene transcriptional regulatory system. *Physical Review E*, **2004**, 70, 041907	2.4	100
20	Effects of inositol 1,4,5-trisphosphate receptor-mediated intracellular stochastic calcium oscillations on activation of glycogen phosphorylase. *Biophysical Chemistry*, **2004**, 110, 179-90	3.5	7
19	An analysis theory of symmetric dc SQUID driven by thermal noises. *Superconductor Science and Technology*, **2003**, 16, 437-443	3.1	2
18	A theoretical study of effects of cytosolic Ca2+ oscillations on activation of glycogen phosphorylase. *Biophysical Chemistry*, **2003**, 106, 193-202	3.5	23
17	A Stochastic Theory of dc Superconducting Quantum Interference Device Responsitivity in the Presence of Thermal Fluctuations. *Chinese Physics Letters*, **2002**, 19, 758-761	1.8	3
16	Influence of Random Potentials on the Current of the Molecular Motor Model. *Chinese Physics Letters*, **2001**, 18, 1431-1434	1.8	5
15	Effects of random potential on transport. *Physical Review E*, **2001**, 63, 052101	2.4	17
14	Effects of colored noise on stochastic resonance in a bistable system subject to multiplicative and additive noise. *Physical Review E*, **2001**, 63, 031107	2.4	91
13	EFFECTS OF CORRELATED NOISES ON CURRENT. *International Journal of Modern Physics B*, **2000**, 14, 507-519	1.1	3
12	Stochastic resonance in a bistable system subject to multiplicative and additive noise. *Physical Review E*, **2000**, 62, 1869-78	2.4	151
11	Stochastic system with colored correlation between white noise and colored noise. *Physica A: Statistical Mechanics and Its Applications*, **1998**, 252, 417-427	3.3	40

10	Can a Correlation Ratchet Operate Under Spatial Symmetry and Temporal Symmetry?. *Chinese Physics Letters*, **1998**, 15, 315-317	1.8	7
9	Reentrance Phenomena in a Bistable Kinetic Model Driven by Correlated Noise. *Physical Review Letters*, **1997**, 78, 994-997	7.4	129
8	Effects of quantum noise in a dye-laser model. *Physical Review A*, **1997**, 55, 2475-2477	2.6	
7	Steady-state analysis of a bistable system with additive and multiplicative noises. *Physical Review E*, **1996**, 53, 5786-5792	2.4	107
6	Transient properties of a bistable kinetic model with correlations between additive and multiplicative noises: Mean first-passage time. *Physical Review E*, **1996**, 53, 5764-5768	2.4	92
5	Effects of a dye laser with correlations between additive and multiplicative noise: Transient properties. *Physical Review A*, **1995**, 51, 3196-3202	2.6	44
4	Correlated Noises of the Stochastic Processes. *Communications in Theoretical Physics*, **1995**, 23, 45-50	2.4	8
3	Effects of chaotic activity and time delay on signal transmission in FitzHugh-Nagumo neuronal system. *Cognitive Neurodynamics*,1	4.2	3
2	Memory function of memristive Hindmarsh□Rose model driven by colored noise and electromagnetic induction. *International Journal of Modern Physics B*,2150117	1.1	0
1	Synchronization mode transitions induced by chaos in modified Morris□ecar neural systems with weak coupling. *Nonlinear Dynamics*,1	5	2