

Chunni Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

2,622
citations

29
h-index

49
g-index

76
ext. papers

3,115
ext. citations

3.6
avg, IF

5.78
L-index

#	Paper	IF	Citations
75	Model of electrical activity in a neuron under magnetic flow effect. <i>Nonlinear Dynamics</i> , 2016 , 85, 1479-1490	3.5	271
74	Dynamics of electric activities in neuron and neurons of network induced by autapses. <i>Science China Technological Sciences</i> , 2014 , 57, 936-946	3.5	113
73	Transition of electric activity of neurons induced by chemical and electric autapses. <i>Science China Technological Sciences</i> , 2015 , 58, 1007-1014	3.5	112
72	Model of electrical activity in cardiac tissue under electromagnetic induction. <i>Scientific Reports</i> , 2016 , 6, 28	4.9	103
71	Dynamical responses in a new neuron model subjected to electromagnetic induction and phase noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 469, 81-88	3.3	101
70	Wave emitting and propagation induced by autapse in a forward feedback neuronal network. <i>Neurocomputing</i> , 2015 , 167, 378-389	5.4	99
69	Synchronization behaviors of coupled neurons under electromagnetic radiation. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1650251	1.1	85
68	Synchronization behavior of coupled neuron circuits composed of memristors. <i>Nonlinear Dynamics</i> , 2017 , 88, 893-901	5	83
67	A review and guidance for pattern selection in spatiotemporal system. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1830003	1.1	75
66	Autapse-induced target wave, spiral wave in regular network of neurons. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1918-1926	3.6	73
65	Parameters estimation, mixed synchronization, and antisynchronization in chaotic systems. <i>Complexity</i> , 2014 , 20, 64-73	1.6	69
64	Autapse-induced synchronization in a coupled neuronal network. <i>Chaos, Solitons and Fractals</i> , 2015 , 80, 31-38	9.3	66
63	Emitting waves from defects in network with autapses. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 23, 164-174	3.7	64
62	Simulating the formation of spiral wave in the neuronal system. <i>Nonlinear Dynamics</i> , 2013 , 73, 73-83	5	60
61	Prediction for breakup of spiral wave in a regular neuronal network. <i>Nonlinear Dynamics</i> , 2016 , 84, 497-509	5	58
60	Synchronization realization between two nonlinear circuits via an induction coil coupling. <i>Nonlinear Dynamics</i> , 2019 , 96, 205-217	5	56
59	First-principles investigation of hydrogen storage capacity of Y-decorated porous graphene. <i>Applied Surface Science</i> , 2017 , 399, 463-468	6.7	55

58	Controlling a chaotic resonator by means of dynamic track control. <i>Complexity</i> , 2015 , 21, 370-378	1.6	54
57	Transition from spiral wave to target wave and other coherent structures in the networks of Hodgkin-Huxley neurons. <i>Applied Mathematics and Computation</i> , 2010 , 217, 3844-3852	2.7	47
56	Minireview on signal exchange between nonlinear circuits and neurons via field coupling. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 1907-1924	2.3	46
55	Hydrogen storage capacity on Ti-decorated porous graphene: First-principles investigation. <i>Applied Surface Science</i> , 2018 , 434, 843-849	6.7	46
54	Chaos and multi-scroll attractors in RCL-shunted junction coupled Jerk circuit connected by memristor. <i>PLoS ONE</i> , 2018 , 13, e0191120	3.7	43
53	Chaos control, spiral wave formation, and the emergence of spatiotemporal chaos in networked Chua circuits. <i>Nonlinear Dynamics</i> , 2012 , 67, 139-146	5	43
52	Collective response, synapse coupling and field coupling in neuronal network. <i>Chaos, Solitons and Fractals</i> , 2017 , 105, 120-127	9.3	41
51	Autapse-induced spiral wave in network of neurons under noise. <i>PLoS ONE</i> , 2014 , 9, e100849	3.7	40
50	Formation of Autapse Connected to Neuron and Its Biological Function. <i>Complexity</i> , 2017 , 2017, 1-9	1.6	39
49	Mode selection in electrical activities of myocardial cell exposed to electromagnetic radiation. <i>Chaos, Solitons and Fractals</i> , 2017 , 99, 219-225	9.3	38
48	Phase coupling synchronization of FHN neurons connected by a Josephson junction. <i>Science China Technological Sciences</i> , 2020 , 63, 2328-2338	3.5	34
47	Pattern selection and self-organization induced by random boundary initial values in a neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 461, 586-594	3.3	30
46	Collapse of ordered spatial pattern in neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 451, 95-112	3.3	29
45	Synchronization stability and pattern selection in a memristive neuronal network. <i>Chaos</i> , 2017 , 27, 113108	3.3	29
44	Energy dependence on modes of electric activities of neuron driven by multi-channel signals. <i>Nonlinear Dynamics</i> , 2017 , 89, 1967-1987	5	28
43	Autaptic Modulation of Electrical Activity in a Network of Neuron-Coupled Astrocyte. <i>Complexity</i> , 2017 , 2017, 1-13	1.6	27
42	Investigation of dynamical behaviors of neurons driven by memristive synapse. <i>Chaos, Solitons and Fractals</i> , 2018 , 108, 15-24	9.3	27
41	Instability and Death of Spiral Wave in a Two-Dimensional Array of Hindmarsh-Rose Neurons. <i>Communications in Theoretical Physics</i> , 2010 , 53, 382-388	2.4	26

40	Synchronization between neural circuits connected by hybrid synapse. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950170	1.1	23
39	Capacitor coupling induces synchronization between neural circuits. <i>Nonlinear Dynamics</i> , 2019 , 97, 2661-2673	3.4	23
38	Local pacing, noise induced ordered wave in a 2D lattice of neurons. <i>Neurocomputing</i> , 2016 , 207, 398-407	5.4	19
37	Transmission of blocked electric pulses in a cable neuron model by using an electric field. <i>Neurocomputing</i> , 2016 , 216, 627-637	5.4	18
36	Emergence of target waves in neuronal networks due to diverse forcing currents. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 1126-1138	3.6	18
35	Control spiral and multi-spiral wave in the complex Ginzburg-Landau equation. <i>Chaos, Solitons and Fractals</i> , 2008 , 38, 521-530	9.3	18
34	Control and synchronization in nonlinear circuits by using a thermistor. <i>Modern Physics Letters B</i> , 2020 , 34, 2050267	1.6	17
33	Identification of parameters with different orders of magnitude in chaotic systems. <i>Dynamical Systems</i> , 2012 , 27, 253-270	0.6	16
32	Simulated test of electric activity of neurons by using Josephson junction based on synchronization scheme. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 2659-2669	3.7	16
31	Suppression of spiral waves in light-sensitive media using chaotic signal modulated scheme. <i>Chaos, Solitons and Fractals</i> , 2007 , 33, 965-970	9.3	16
30	Calculation of Hamilton energy function of dynamical system by using Helmholtz theorem. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016 , 65, 240501	0.6	16
29	Synchronization behaviors of coupled systems composed of hidden attractors. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750180	1.1	15
28	Field coupling-induced pattern formation in two-layer neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 501, 141-152	3.3	15
27	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
26	Defects formation and wave emitting from defects in excitable media. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 34, 55-65	3.7	13
25	Computer Simulation of Noise Effects of the Neighborhood of Stimulus Threshold for a Mathematical Model of Homeostatic Regulation of Sleep-Wake Cycles. <i>Complexity</i> , 2017 , 2017, 1-7	1.6	12
24	Electric Field-induced dynamical evolution of spiral wave in the regular networks of Hodgkin-Huxley neurons. <i>Applied Mathematics and Computation</i> , 2011 , 218, 4467-4474	2.7	11
23	Coupling synchronization between photoelectric neurons by using memristive synapse. <i>Optik</i> , 2020 , 218, 164993	2.5	10

22	Formation of multi-armed spiral waves in neuronal network induced by adjusting ion channel conductance. <i>International Journal of Modern Physics B</i> , 2015 , 29, 1550043	1.1	10
21	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
20	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
19	Suppression of the Spiral Wave and Turbulence in the Excitability-Modulated Media. <i>International Journal of Theoretical Physics</i> , 2009 , 48, 150-157	1.1	9
18	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
17	Evolution of spiral waves subjected to parameter modulation under chaotic signal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 369, 387-392	3.3	9
16	Regulating synchronous patterns in neurons and networks via field coupling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105583	3.7	9
15	Stability of target waves in excitable media under electromagnetic induction and radiation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 521, 519-530	3.3	6
14	Capturing and shunting energy in chaotic Chua circuit. <i>Chaos, Solitons and Fractals</i> , 2020 , 134, 109697	9.3	6
13	Reliability of linear coupling synchronization of hyperchaotic systems with unknown parameters. <i>Chinese Physics B</i> , 2013 , 22, 100502	1.2	6
12	Deformation and death of spiral wave induced by asymmetrical diffusion in elastic media. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 3913-3918	3.7	6
11	Suppression of the spiral wave in cardiac tissue by using forcing currents with diversity. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013 , 62, 084501	0.6	5
10	Phase synchronization of memristive systems by using saturation gain method. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2050074	1.1	4
9	Synchronization transition in degenerate optical parametric oscillators induced by nonlinear coupling. <i>Applied Mathematics and Computation</i> , 2010 , 216, 647-654	2.7	4
8	Target wave in the network coupled by thermistors. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110455	9.3	4
7	Dependence of hidden attractors on non-linearity and Hamilton energy in a class of chaotic system. <i>Kybernetika</i> , 648-663		3
6	Control the collective behaviors in a functional neural network. <i>Chaos, Solitons and Fractals</i> , 2021 , 152, 111361	9.3	3
5	Investigation of emergence of target wave and spiral wave in neuronal network induced by gradient coupling. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 198701	0.6	2

4	Realization of synchronization of nonlinear oscillators under intermittent coupling controlled by pulse signal. <i>Indian Journal of Physics</i> , 2016 , 90, 1155-1163	1.4	2
3	Phase synchronization between nonlinear circuits by capturing electromagnetic field energy. <i>Modern Physics Letters B</i> , 2020 , 34, 2050323	1.6	1
2	Synchronization of Neuronal Circuits with Ring Connection on PSpice. <i>Journal of Control Science and Engineering</i> , 2016 , 2016, 1-10	1.2	1
1	Desynchronization of thermosensitive neurons by using energy pumping. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 127644	3.3	1