

Wuyin Jin

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,115
citations

471509

17
h-index

395702

33
g-index

49
all docs

49
docs citations

49
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.6	141
2	Dynamics of electric activities in neuron and neurons of network induced by autapses. <i>Science China Technological Sciences</i> , 2014, 57, 936-946.	4.0	126
3	Autapse-induced synchronization in a coupled neuronal network. <i>Chaos, Solitons and Fractals</i> , 2015, 80, 31-38.	5.1	84
4	Complete synchronization, phase synchronization and parameters estimation in a realistic chaotic system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 3770-3785.	3.3	82
5	Simulating the formation of spiral wave in the neuronal system. <i>Nonlinear Dynamics</i> , 2013, 73, 73-83.	5.2	65
6	Calculation of Hamilton energy and control of dynamical systems with different types of attractors. <i>Chaos</i> , 2017, 27, 053108.	2.5	64
7	Collective response, synapse coupling and field coupling in neuronal network. <i>Chaos, Solitons and Fractals</i> , 2017, 105, 120-127.	5.1	57
8	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.	2.2	53
9	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
10	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
11	Capacitor coupling induces synchronization between neural circuits. <i>Nonlinear Dynamics</i> , 2019, 97, 2661-2673.	5.2	39
12	Effects of electromagnetic induction and noise on the regulation of sleep wake cycle. <i>Science China Technological Sciences</i> , 2019, 62, 2113-2119.	4.0	35
13	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.	2.6	34
14	Emergence and robustness of target waves in a neuronal network. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550164.	2.0	28
15	A computational study of the interdependencies between neuronal impulse pattern, noise effects and synchronization. <i>Journal of Physiology (Paris)</i> , 2010, 104, 176-189.	2.1	24
16	Transmission of blocked electric pulses in a cable neuron model by using an electric field. <i>Neurocomputing</i> , 2016, 216, 627-637.	5.9	22
17	Intelligent fault diagnosis of rolling bearings using a semi-supervised convolutional neural network. <i>Applied Intelligence</i> , 2021, 51, 2144-2160.	5.3	18
18	Multi-channels coupling-induced pattern transition in a tri-layer neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 493, 54-68.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Rate of afferent stimulus dependent synchronization and coding in coupled neurons system. Chaos, Solitons and Fractals, 2004, 21, 1221-1229.	5.1	12
20	The complete synchronization of Morris-Lecar neurons influenced by noise. Nonlinear Dynamics, 2013, 73, 1715-1719.	5.2	12
21	Formation of multi-armed spiral waves in neuronal network induced by adjusting ion channel conductance. International Journal of Modern Physics B, 2015, 29, 1550043.	2.0	12
22	Computer Simulation of Noise Effects of the Neighborhood of Stimulus Threshold for a Mathematical Model of Homeostatic Regulation of Sleep-Wake Cycles. Complexity, 2017, 2017, 1-7.	1.6	12
23	Stochastic Synchronization and Aperiodic Stochastic Resonance of a Unidirectionally Coupled Single-mode Optical System. International Journal of Nonlinear Sciences and Numerical Simulation, 2005, 6, .	1.0	11
24	Synchronous firing patterns and transitions in small-world neuronal network. Nonlinear Dynamics, 2015, 81, 1453-1458.	5.2	11
25	Analysis on dynamics of a cutting tool with the thermal distortion in turning process. Nonlinear Dynamics, 2016, 86, 1183-1191.	5.2	8
26	Bifurcation and chaotic vibration of frictional chatter in turning process. Advances in Mechanical Engineering, 2018, 10, 168781401877126.	1.6	8
27	A Novel Rotational Field Eddy Current Planar Probe with Two-Circular Sector Pickup Coils. Sensors, 2019, 19, 4628.	3.8	8
28	Synchronous Behaviors of Two Coupled Neurons. Lecture Notes in Computer Science, 2005, , 302-307.	1.3	5
29	The complete synchronization of coupled Morris-Lecar neurons with chemical synapses. International Journal of Modern Physics B, 2016, 30, 1650096.	2.0	5
30	The synchronization of asymmetric-structured electric coupling neuronal system. International Journal of Modern Physics B, 2018, 32, 1850040.	2.0	4
31	Effects of Time Delay on Chaotic Neuronal Discharges. Mathematical and Computational Applications, 2010, 15, 840-845.	1.3	3
32	Modeling of Vibration Condition in Flat Surface Grinding Process. Shock and Vibration, 2020, 2020, 1-12.	0.6	3
33	Diversity and Noise in Neurodynamics Across Different Functional Levels. Advances in Cognitive Neurodynamics, 2016, , 681-687.	0.1	3
34	A Multi-Goal Global Dynamic Path Planning Method for Indoor Mobile Robot. , 2021, , .		3
35	A novel planar differential excitation eddy current probe based on the fractal Koch curve. Measurement: Journal of the International Measurement Confederation, 2022, 193, 110947.	5.0	3
36	A Differential Excitation Eddy Current Probe Based on Novel Annular Fractal Curve for Defects Inspection. IEEE Sensors Journal, 2022, 22, 15903-15915.	4.7	3

#	ARTICLE	IF	CITATIONS
37	Synchronization in Two Uncoupled Chaotic Neurons. Lecture Notes in Computer Science, 2004, , 138-143.	1.3	1
38	Photonic phase transition in circuit quantum electrodynamics lattices coupled to superconducting phase qubits. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2092-2097.	5.1	1
39	Dynamic Response of a Semiactive Suspension System with Hysteretic Nonlinear Energy Sink Based on Random Excitation by means of Computer Simulation. Complexity, 2020, 2020, 1-13.	1.6	1
40	Influence of Feed Velocity on Nonlinear Dynamics of Turning Process. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1069-1079.	2.2	1
41	Simulation and experiment of ultrasonic phased array for additive manufacturing titanium alloy with columnar crystal structure. Insight: Non-Destructive Testing and Condition Monitoring, 2022, 64, 262-269.	0.6	1
42	Recognition of chatter type based on improved neural network. , 2013, , .		0
43	Fourth-order Perturbed Eigenvalue Equation for Stepwise Damage Detection of Aeroplane Wing. MATEC Web of Conferences, 2016, 75, 09010.	0.2	0
44	Data Analysis for Dynamics of Cooperative Bridge-Vehicle System Considering Pavement Roughness and Separation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16820-16832.	8.0	0
45	Finite element analysis of indentation contact of double piezoelectric spheres. Materials Today Communications, 2021, 29, 102775.	1.9	0
46	Observation of Crises and Bifurcations in the Hodgkin-Huxley Neuron Model. Lecture Notes in Computer Science, 2005, , 390-396.	1.3	0
47	Synchronized Discharge Pattern Decision Mechanism of Small-World Neuronal Network. Advances in Cognitive Neurodynamics, 2016, , 693-698.	0.1	0
48	Effect of the Regenerative and Frictional Force on Chatter in Turning Process. , 2020, , 513-521.		0