

# Jiang Wang

## List of Publications by Year in descending order

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287  
papers

3,574  
citations

172457

29  
h-index

223800

46  
g-index

288  
all docs

288  
docs citations

288  
times ranked

2791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Digital Neuromorphic Architecture for Large-Scale Biophysically Meaningful Neural Network With Multi-Compartment Neurons. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 148-162.	11.3	229
2	Power spectral density and coherence analysis of Alzheimer's EEG. Cognitive Neurodynamics, 2015, 9, 291-304.	4.0	125
3	Investigation of EEG abnormalities in the early stage of Parkinson's disease. Cognitive Neurodynamics, 2013, 7, 351-359.	4.0	120
4	Efficient Spike-Driven Learning With Dendritic Event-Based Processing. Frontiers in Neuroscience, 2021, 15, 601109.	2.8	120
5	BiCoSS: Toward Large-Scale Cognition Brain With Multigranular Neuromorphic Architecture. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2801-2815.	11.3	96
6	Real-Time Neuromorphic System for Large-Scale Conductance-Based Spiking Neural Networks. IEEE Transactions on Cybernetics, 2019, 49, 2490-2503.	9.5	95
7	Modulation of Spectral Power and Functional Connectivity in Human Brain by Acupuncture Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 977-986.	4.9	66
8	Decreased coherence and functional connectivity of electroencephalograph in Alzheimer's disease. Chaos, 2014, 24, 033136.	2.5	64
9	Supervised Network-Based Fuzzy Learning of EEG Signals for Alzheimer's Disease Identification. IEEE Transactions on Fuzzy Systems, 2020, 28, 60-71.	9.8	61
10	Cost-efficient FPGA implementation of basal ganglia and their Parkinsonian analysis. Neural Networks, 2015, 71, 62-75.	5.9	59
11	Characterization of complexity in the electroencephalograph activity of Alzheimer's disease based on fuzzy entropy. Chaos, 2015, 25, 083116.	2.5	53
12	Modulation Effect of Acupuncture on Functional Brain Networks and Classification of Its Manipulation With EEG Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1973-1984.	4.9	52
13	Multivariate multi-scale weighted permutation entropy analysis of EEG complexity for Alzheimer's disease. Cognitive Neurodynamics, 2017, 11, 217-231.	4.0	47
14	SAM: A Unified Self-Adaptive Multicompartmental Spiking Neuron Model for Learning With Working Memory. Frontiers in Neuroscience, 2022, 16, 850945.	2.8	47
15	Digital implementations of thalamocortical neuron models and its application in thalamocortical control using FPGA for Parkinson's disease. Neurocomputing, 2016, 177, 274-289.	5.9	45
16	Multiple characteristics analysis of Alzheimer's electroencephalogram by power spectral density and Lempel-Ziv complexity. Cognitive Neurodynamics, 2016, 10, 121-133.	4.0	44
17	Spatiotemporal EEG microstate analysis in drug-free patients with Parkinson's disease. NeuroImage: Clinical, 2020, 25, 102132.	2.7	44
18	Comparative Analysis and Optimization of Dynamic Charging Coils for Roadway-Powered Electric Vehicles. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	43

#	ARTICLE	IF	CITATIONS
19	Complexity of resting-state EEG activity in the patients with early-stage Parkinson's disease. <i>Cognitive Neurodynamics</i> , 2017, 11, 147-160.	4.0	41
20	Functional brain networks in healthy subjects under acupuncture stimulation: An EEG study based on nonlinear synchronization likelihood analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 468, 566-577.	2.6	40
21	Multiple feature extraction and classification of electroencephalograph signal for Alzheimers' with spectrum and bispectrum. <i>Chaos</i> , 2015, 25, 013110.	2.5	39
22	Model-Based Evaluation of Closed-Loop Deep Brain Stimulation Controller to Adapt to Dynamic Changes in Reference Signal. <i>Frontiers in Neuroscience</i> , 2019, 13, 956.	2.8	39
23	Effects of time delay and random rewiring on the stochastic resonance in excitable small-world neuronal networks. <i>Physical Review E</i> , 2013, 87, 052917.	2.1	37
24	Gamma rhythm low field magnetic stimulation alleviates neuropathologic changes and rescues memory and cognitive impairments in a mouse model of Alzheimer's disease. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2017, 3, 487-497.	3.7	36
25	WLPVG approach to the analysis of EEG-based functional brain network under manual acupuncture. <i>Cognitive Neurodynamics</i> , 2014, 8, 417-428.	4.0	35
26	Complexity extraction of electroencephalograms in Alzheimer's disease with weighted-permutation entropy. <i>Chaos</i> , 2015, 25, 043105.	2.5	34
27	Design of Hidden-Property-Based Variable Universe Fuzzy Control for Movement Disorders and Its Efficient Reconfigurable Implementation. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 304-318.	9.8	34
28	Variation of functional brain connectivity in epileptic seizures: an EEG analysis with cross-frequency phase synchronization. <i>Cognitive Neurodynamics</i> , 2020, 14, 35-49.	4.0	33
29	Topology-Reconfigurable Capacitor Matrix for Encrypted Dynamic Wireless Charging of Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 9284-9293.	6.3	32
30	Reconstruction of functional brain network in Alzheimer's disease via cross-frequency phase synchronization. <i>Neurocomputing</i> , 2018, 314, 490-500.	5.9	32
31	Chaos analysis of the electrical signal time series evoked by acupuncture. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 901-907.	5.1	31
32	Variable universe fuzzy closed-loop control of tremor predominant Parkinsonian state based on parameter estimation. <i>Neurocomputing</i> , 2015, 151, 1507-1518.	5.9	31
33	Stochastic resonance enhancement of small-world neural networks by hybrid synapses and time delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 42, 532-544.	3.3	29
34	Neuronal Spike Initiation Modulated by Extracellular Electric Fields. <i>PLoS ONE</i> , 2014, 9, e97481.	2.5	29
35	CLOSED-LOOP CONTROL OF THE THALAMOCORTICAL RELAY NEURON'S PARKINSONIAN STATE BASED ON SLOW VARIABLE. <i>International Journal of Neural Systems</i> , 2013, 23, 1350017.	5.2	28
36	Neural mass models describing possible origin of the excessive beta oscillations correlated with Parkinsonian state. <i>Neural Networks</i> , 2017, 88, 65-73.	5.9	28

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37	Biomarkers for Alzheimer's Disease Defined by a Novel Brain Functional Network Measure. IEEE Transactions on Biomedical Engineering, 2019, 66, 41-49.	4.2	28
38	Functional Integration and Segregation in Multiplex Brain Networks for Alzheimer's Disease. Frontiers in Neuroscience, 2020, 14, 51.	2.8	28
39	Multi-scale order recurrence quantification analysis of EEG signals evoked by manual acupuncture in healthy subjects. Cognitive Neurodynamics, 2013, 7, 79-88.	4.0	27
40	Closed-Loop Modulation of the Pathological Disorders of the Basal Ganglia Network. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 371-382.	11.3	27
41	Stochastic resonance, coherence resonance, and spike timing reliability of Hodgkin-Huxley neurons with ion-channel noise. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 263-275.	2.6	27
42	Weak electric fields detectability in a noisy neural network. Cognitive Neurodynamics, 2017, 11, 81-90.	4.0	27
43	Cost-efficient FPGA implementation of a biologically plausible dopamine neural network and its application. Neurocomputing, 2018, 314, 394-408.	5.9	27
44	Closed-Loop Control of Tremor-Predominant Parkinsonian State Based on Parameter Estimation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1109-1121.	4.9	26
45	Training Spiking Neural Networks for Cognitive Tasks: A Versatile Framework Compatible With Various Temporal Codes. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1285-1296.	11.3	26
46	Feature Extraction and Identification of Alzheimer's Disease based on Latent Factor of Multi-Channel EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1557-1567.	4.9	26
47	UKF-based closed loop iterative learning control of epileptiform wave in a neural mass model. Cognitive Neurodynamics, 2015, 9, 31-40.	4.0	25
48	Efficient hardware implementation of the subthalamic nucleus-external globus pallidus oscillation system and its dynamics investigation. Neural Networks, 2017, 94, 220-238.	5.9	25
49	Adaptive robust control of nonholonomic systems with stochastic disturbances. Science in China Series F: Information Sciences, 2006, 49, 189-207.	1.1	24
50	Chaos synchronization of coupled neurons under electrical stimulation via robust adaptive fuzzy control. Nonlinear Dynamics, 2010, 61, 847-857.	5.2	24
51	Efficient implementation of a real-time estimation system for thalamocortical hidden Parkinsonian properties. Scientific Reports, 2017, 7, 40152.	3.3	24
52	Morphology controls how hippocampal CA1 pyramidal neuron responds to uniform electric fields: a biophysical modeling study. Scientific Reports, 2017, 7, 3210.	3.3	24
53	A neural mass model of basal ganglia nuclei simulates pathological beta rhythm in Parkinson's disease. Chaos, 2016, 26, 123113.	2.5	23
54	Mutual-Inductance-Dynamic-Predicted Constant Current Control of LCC-P Compensation Network for Drone Wireless In-Flight Charging. IEEE Transactions on Industrial Electronics, 2022, 69, 12710-12719.	7.9	23

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55	Robust Smooth-Trajectory Control of Nonlinear Servo Systems Based on Neural Networks. IEEE Transactions on Industrial Electronics, 2007, 54, 208-217.	7.9	22
56	Theoretical analysis of vibrational resonance in a neuron model near a bifurcation point. Physical Review E, 2014, 89, 062916.	2.1	22
57	Input-output relation and energy efficiency in the neuron with different spike threshold dynamics. Frontiers in Computational Neuroscience, 2015, 9, 62.	2.1	22
58	Dendritic Properties Control Energy Efficiency of Action Potentials in Cortical Pyramidal Cells. Frontiers in Cellular Neuroscience, 2017, 11, 265.	3.7	22
59	Application of Reinforcement Learning to Deep Brain Stimulation in a Computational Model of Parkinson's Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 339-349.	4.9	22
60	Identification of Alzheimer's EEG With a WVG Network-Based Fuzzy Learning Approach. Frontiers in Neuroscience, 2020, 14, 641.	2.8	22
61	Altered inter-frequency dynamics of brain networks in disorder of consciousness. Journal of Neural Engineering, 2020, 17, 036006.	3.5	22
62	Chaotic phase synchronization in a modular neuronal network of small-world subnetworks. Chaos, 2011, 21, 043125.	2.5	21
63	Adaptive stochastic resonance in self-organized small-world neuronal networks with time delay. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 346-358.	3.3	21
64	Robust closed-loop control of spike-and-wave discharges in a thalamocortical computational model of absence epilepsy. Scientific Reports, 2019, 9, 9093.	3.3	21
65	Stochastic resonance on a modular neuronal network of small-world subnetworks with a subthreshold pacemaker. Chaos, 2011, 21, 047502.	2.5	19
66	Suppression of seizures based on the multi-coupled neural mass model. Chaos, 2015, 25, 103120.	2.5	19
67	Nonlinear predictive control for adaptive adjustments of deep brain stimulation parameters in basal ganglia-thalamic network. Neural Networks, 2018, 98, 283-295.	5.9	19
68	Single-Transmitter Multiple-Pickup Wireless Power Transfer: Advantages, Challenges, and Corresponding Technical Solutions. IEEE Industrial Electronics Magazine, 2020, 14, 123-135.	2.6	19
69	Model-based iterative learning control of Parkinsonian state in thalamic relay neuron. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3255-3266.	3.3	18
70	Stochastic resonance in feedforward acupuncture networks. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3660-3670.	3.3	18
71	Synchronization of neuron population subject to steady DC electric field induced by magnetic stimulation. Cognitive Neurodynamics, 2013, 7, 237-252.	4.0	16
72	Opportunities and challenges of metamaterial-based wireless power transfer for electric vehicles. Wireless Power Transfer, 2018, 5, 9-19.	1.1	16

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73	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. <i>Neural Networks</i> , 2020, 123, 381-392.	5.9	16
74	Characterizing electrical signals evoked by acupuncture through complex network mapping: A new perspective on acupuncture. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 498-504.	4.7	15
75	Decoding acupuncture electrical signals in spinal dorsal root ganglion. <i>Neurocomputing</i> , 2012, 79, 12-17.	5.9	15
76	Neural Network-Based Closed-Loop Deep Brain Stimulation for Modulation of Pathological Oscillation in Parkinson's Disease. <i>IEEE Access</i> , 2020, 8, 161067-161079.	4.2	15
77	Characterization of network switching in disorder of consciousness at multiple time scales. <i>Journal of Neural Engineering</i> , 2020, 17, 026024.	3.5	15
78	Modeling and Analysis of Beta Oscillations in the Basal Ganglia. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 1864-1875.	11.3	14
79	Deep learning reveals personalized spatial spectral abnormalities of high delta and low alpha bands in EEG of patients with early Parkinson's disease. <i>Journal of Neural Engineering</i> , 2021, 18, 066036.	3.5	14
80	Vibrational resonance in feedforward neuronal network with unreliable synapses. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	13
81	Intrinsic excitability state of local neuronal population modulates signal propagation in feed-forward neural networks. <i>Chaos</i> , 2015, 25, 043108.	2.5	13
82	Particle swarm optimization algorithm based parameters estimation and control of epileptiform spikes in a neural mass model. <i>Chaos</i> , 2016, 26, 073118.	2.5	13
83	Action potential initiation in a two-compartment model of pyramidal neuron mediated by dendritic Ca <sup>2+</sup> spike. <i>Scientific Reports</i> , 2017, 7, 45684.	3.3	13
84	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 5046-5056.	9.5	13
85	Epileptic seizure detection of electroencephalogram based on weighted-permutation entropy. , 2016, , .		12
86	Epileptic seizure detection from EEG signals with phase-amplitude cross-frequency coupling and support vector machine. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850086.	2.0	12
87	Firing Rate Oscillation and Stochastic Resonance in Cortical Networks With Electrical-Chemical Synapses and Time Delay. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 5-13.	9.8	12
88	Model Predictive Control for Seizure Suppression Based on Nonlinear Auto-Regressive Moving-Average Volterra Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2173-2183.	4.9	12
89	Epileptic Seizure Detection Using Brain-Rhythmic Recurrence Biomarkers and ONASNet-Based Transfer Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 979-989.	4.9	12
90	Metabolic Energy of Action Potentials Modulated by Spike Frequency Adaptation. <i>Frontiers in Neuroscience</i> , 2016, 10, 534.	2.8	11

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91	Comprehensive Survey on Improved Focality and Penetration Depth of Transcranial Magnetic Stimulation Employing Multi-Coil Arrays. International Journal of Environmental Research and Public Health, 2017, 14, 1388.	2.6	11
92	Local and global synchronization transitions induced by time delays in small-world neuronal networks with chemical synapses. Cognitive Neurodynamics, 2015, 9, 93-101.	4.0	10
93	Analysis and application of neuronal network controllability and observability. Chaos, 2017, 27, 023103.	2.5	10
94	Optimal Design of Quadrature-Shaped Pickup for Omnidirectional Wireless Power Transfer. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	10
95	Applying Statistical and Complex Network Methods to Explore the Key Signaling Molecules of Acupuncture Regulating Neuroendocrine-Immune Network. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-17.	1.2	10
96	Noise-Induced Improvement of the Parkinsonian State: A Computational Study. IEEE Transactions on Cybernetics, 2019, 49, 3655-3664.	9.5	10
97	Multiple Stochastic Resonances and Oscillation Transitions in Cortical Networks With Time Delay. IEEE Transactions on Fuzzy Systems, 2020, 28, 39-46.	9.8	10
98	Analysis of complexity and dynamic functional connectivity based on resting-state EEG in early Parkinson's disease patients with mild cognitive impairment. Cognitive Neurodynamics, 2022, 16, 309-323.	4.0	10
99	Biophysical Insights into How Spike Threshold Depends on the Rate of Membrane Potential Depolarization in Type I and Type II Neurons. PLoS ONE, 2015, 10, e0130250.	2.5	10
100	The effects of time delay on the synchronization transitions in a modular neuronal network with hybrid synapses. Chaos, Solitons and Fractals, 2013, 47, 54-65.	5.1	9
101	Ordinal Pattern Based Complexity Analysis for EEG Activity Evoked by Manual Acupuncture in Healthy Subjects. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450018.	1.7	9
102	Effects of spike-time-dependent plasticity on the stochastic resonance of small-world neuronal networks. Chaos, 2014, 24, 033125.	2.5	9
103	Noninvasive Brain Stimulation Using Strong-Coupling Effect of Resonant Magnetics. IEEE Transactions on Magnetics, 2017, 53, 1-9.	2.1	9
104	Modulations of dendritic $Ca^{2+}$ spike with weak electric fields in layer 5 pyramidal cells. Neural Networks, 2019, 110, 8-18.	5.9	9
105	Scalable Implementation of Hippocampal Network on Digital Neuromorphic System towards Brain-Inspired Intelligence. Applied Sciences (Switzerland), 2020, 10, 2857.	2.5	9
106	Analysis and Control of Optimal Power Distribution for Multi-Objective Wireless Charging Systems. Energies, 2018, 11, 1726.	3.1	8
107	Multiple Objective-Based Optimal Energy Distribution for Wireless Power Transfer. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	8
108	Mathematical Modeling for Description of Oscillation Suppression Induced by Deep Brain Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1649-1658.	4.9	8

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109	Adaptive Parameter Modulation of Deep Brain Stimulation Based on Improved Supervisory Algorithm. <i>Frontiers in Neuroscience</i> , 2021, 15, 750806.	2.8	8
110	Chaotic Synchronization of Coupled Hindmarsh-Rose Neurons Using Adaptive Control. , 2009, , .		7
111	Synchronization of inhibitory coupled Hindmarsh-Rose neurons via adaptive sliding mode control. , 2011, , .		7
112	An ephaptic transmission model of CA3 pyramidal cells: an investigation into electric field effects. <i>Cognitive Neurodynamics</i> , 2014, 8, 177-197.	4.0	7
113	Synchrony analysis using different cross-entropy measures of the electroencephalograph activity in Alzheimer's disease. , 2016, , .		7
114	Deep Multi-scale Feature Fusion Convolutional Neural Network for Automatic Epilepsy Detection Using EEG Signals. , 2020, , .		7
115	Closing the loop of DBS using the beta oscillations in cortex. <i>Cognitive Neurodynamics</i> , 2021, 15, 1157-1167.	4.0	7
116	Electroencephalographic cross-frequency coupling and multiplex brain network under manual acupuncture stimulation. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102832.	5.7	7
117	Adaptive parameter modulation of deep brain stimulation in a computational model of basal ganglia-thalamic network. <i>Nonlinear Dynamics</i> , 2021, 106, 945-958.	5.2	7
118	Desynchronization in an ensemble of globally coupled chaotic bursting neuronal oscillators by dynamic delayed feedback control. <i>International Journal of Modern Physics B</i> , 2015, 29, 1450235.	2.0	6
119	Estimation of key parameters in adaptive neuron model according to firing patterns based on improved particle swarm optimization algorithm. <i>Modern Physics Letters B</i> , 2017, 31, 1750060.	1.9	6
120	Energy Cost of Action Potential Generation and Propagation in Thalamocortical Relay Neurons During Deep Brain Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3457-3471.	4.2	6
121	Applying Complex Network and Cell-Cell Communication Network Diagram Methods to Explore the Key Cytokines and Immune Cells in Local Acupoint Involved in Acupuncture Treating Inflammatory Pain. <i>Evidence-based Complementary and Alternative Medicine</i> , 2020, 2020, 1-15.	1.2	6
122	Lightweight Learning-Based Automatic Segmentation of Subretinal Blebs on Microscope-Integrated Optical Coherence Tomography Images. <i>American Journal of Ophthalmology</i> , 2021, 221, 154-168.	3.3	6
123	Intensity-Varied Closed-Loop Noise Stimulation for Oscillation Suppression in the Parkinsonian State. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 9861-9870.	9.5	6
124	An Embedded Multi-Core Real-Time Simulation Platform of Basal Ganglia for Deep Brain Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1328-1340.	4.9	6
125	Feedback linearization control of chaos synchronization in coupled map-based neurons under external electrical stimulation. <i>International Journal of Control, Automation and Systems</i> , 2011, 9, 867-874.	2.7	5
126	Characterizing neural activities evoked by manual acupuncture through spiking irregularity measures. <i>Chinese Physics B</i> , 2013, 22, 098703.	1.4	5



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127	Effects of DC electric fields on neuronal excitability: A bifurcation analysis. International Journal of Modern Physics B, 2014, 28, 1450114.	2.0	5
128	Scale-specific effects: A report on multiscale analysis of acupunctured EEG in entropy and power. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 2260-2272.	2.6	5
129	An Improved Visibility Graph Analysis of EEG Signals of Alzheimer Brain. , 2018, , .		5
130	Twin Coil Design Considerations for Depth and Focality in Transcranial Magnetic Stimulation. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
131	Metabolic Cost of Dendritic Ca <sup>2+</sup> Action Potentials in Layer 5 Pyramidal Neurons. Frontiers in Neuroscience, 2019, 13, 1221.	2.8	5
132	Effective suppression of beta oscillation in Parkinsonian state via a noisy direct delayed feedback control scheme*. Chinese Physics B, 2021, 30, 038703.	1.4	5
133	Analysis of Brain Functional Network Based on EEG Signals for Early-Stage Parkinson's Disease Detection. IEEE Access, 2022, 10, 21347-21358.	4.2	5
134	Disrupted Control Architecture of Brain Network in Disorder of Consciousness. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 400-409.	4.9	5
135	Bifurcation Analysis of the Hodgkin-Huxley Model Exposed to External DC Electric Field. , 2007, , .		4
136	A combined method to estimate parameters of the thalamocortical model from a heavily noise-corrupted time series of action potential. Chaos, 2014, 24, 013128.	2.5	4
137	Endogenous field feedback promotes the detectability for exogenous electric signal in the hybrid coupled population. Chaos, 2015, 25, 013113.	2.5	4
138	LPVG analysis of the EEG activity in Alzheimer's disease patients. , 2016, , .		4
139	Improved Figure-of-Eight Coil for Transcranial Magnetic Stimulation Using Magnetic Resonant Coupling. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	4
140	EEG-based functional networks evoked by acupuncture at ST 36: A data-driven thresholding study. International Journal of Modern Physics B, 2017, 31, 1750187.	2.0	4
141	Fitting of adaptive neuron model to electrophysiological recordings using particle swarm optimization algorithm. International Journal of Modern Physics B, 2017, 31, 1750023.	2.0	4
142	Efficient Implementation of Cerebellar Purkinje Cell With the CORDIC Algorithm on LaCSNN. Frontiers in Neuroscience, 2019, 13, 1078.	2.8	4
143	Frequency-Dependent Energy Demand of Dendritic Responses to Deep Brain Stimulation in Thalamic Neurons: A Model-Based Study. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3056-3068.	11.3	4
144	A Data Driven Experimental System for Individualized Brain Stimulation Design and Validation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1848-1857.	4.9	4

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145	Tactile glove-decode and classify the human grasping process. , 2021, , .		4
146	Oscillation suppression effects of intermittent noisy deep brain stimulation induced by coordinated reset pattern based on a computational model. Biomedical Signal Processing and Control, 2022, 73, 103466.	5.7	4
147	Decoding Digital Visual Stimulation From Neural Manifold With Fuzzy Learning on Cortical Oscillatory Dynamics. Frontiers in Computational Neuroscience, 2022, 16, 852281.	2.1	4
148	Semi-global robust output regulation of minimum-phase nonlinear systems based on high-gain nonlinear internal model. International Journal of Control, 2010, 83, 1009-1024.	1.9	3
149	The implementation of feedforward network on field programmable gate array. , 2014, , .		3
150	Power spectral density and high order bispectral analysis of Alzheimer's EEG. , 2015, , .		3
151	Modulation of Parkinsonian State With Uncertain Disturbance Based on Sliding Mode Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2026-2034.	4.9	3
152	Stimulation Pulse Optimization of Deep Brain Stimulation. , 2019, , .		3
153	Digital Implementation of the Spiking Neural Network and Its Digit Recognition. , 2019, , .		3
154	Cross-frequency network analysis of functional brain connectivity in temporal lobe epilepsy. Chinese Physics B, 2019, 28, 048702.	1.4	3
155	Fluctuation Scaling of Neuronal Firing and Bursting in Spontaneously Active Brain Circuits. International Journal of Neural Systems, 2020, 30, 1950017.	5.2	3
156	Frequency-dependent response in cortical network with periodic electrical stimulation. Chaos, 2020, 30, 073130.	2.5	3
157	Deep Convolutional Neural Network for Detection of Disorders of Consciousness. , 2020, , .		3
158	Asymptotic Input-Output Relationship Predicts Electric Field Effect on Sublinear Dendritic Integration of AMPA Synapses. Neural Computation, 2021, 33, 1-37.	2.2	3
159	Latent Characteristics and Neural Manifold of Brain Functional Network Under Acupuncture. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 758-769.	4.9	3
160	Effects of hyperpolarization-active cation current (I <sub>h</sub> ) on sublinear dendritic integration under applied electric fields. Nonlinear Dynamics, 0, , 1.	5.2	3
161	Adaptive closed-loop control strategy inhibiting pathological basal ganglia oscillations. Biomedical Signal Processing and Control, 2022, 77, 103776.	5.7	3
162	Bio-inspired computing: A deep learning algorithm with the spike-frequency adaptation. , 2022, , .		3

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163	Multi-task learning: A solution of small sample size problem in floor-based gait recognition. , 2022, , .		3
164	Introducing conditional integrator to sliding mode control of DC/DC buck converter. , 2009, , .		2
165	Parameter estimation in Hodgkin-Huxley model with adaptive method. , 2011, , .		2
166	Effects of deep brain stimulation amplitude on the basal-ganglia-thalamo-cortical network. , 2015, , .		2
167	Dependence of sinusoidal electric field effect on neuronal morphological properties. International Journal of Modern Physics B, 2015, 29, 1550092.	2.0	2
168	Granger causality analysis in the neural mass model. , 2015, , .		2
169	Reconstruction of neuronal input through modeling single-neuron dynamics and computations. Chaos, 2016, 26, 063121.	2.5	2
170	An optimal design of dynamic wireless automatic charging system for roadway-powered electric vehicles. , 2016, , .		2
171	A multi-FPGA embedded system for the emulation of modular small-world network with real time dynamics. , 2016, , .		2
172	Iterative learning control algorithm for spiking behavior of neuron model. International Journal of Modern Physics B, 2016, 30, 1550240.	2.0	2
173	Complexity Analysis of EEG in AD Patients with Fractional Permutation Entropy. , 2018, , .		2
174	Digital Implementation of the Retinal Spiking Neural Network under Light Stimulation. , 2019, , .		2
175	Personalized closed-loop brain stimulation system based on linear state space model identification. , 2020, , .		2
176	Improving EEG-based Alzheimerâ€™s Disease Identification with Generative Adversarial Learning. , 2021, , .		2
177	Low-Dimensional Dynamics of Brain Activity Associated with Manual Acupuncture in Healthy Subjects. Sensors, 2021, 21, 7432.	3.8	2
178	Subthalamic and pallidal stimulation in Parkinson's disease induce distinct brain topological reconstruction. NeuroImage, 2022, 255, 119196.	4.2	2
179	An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimerâ€™s disease. Journal of Neural Engineering, 2022, 19, 036007.	3.5	2
180	A Non-Invasive System for On-line Surface Defect Detection on Special-shaped Steel towards Real Production Lines. , 2022, , .		2

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