Jiang Wang

List of Publications by Year in Descending Order

177 papers	2,046 citations	23 h-index	35 g-index
288 ext. papers	2,871 ext. citations	4.3 avg, IF	5.5 L-index

#	Paper	IF	Citations
177	Mutual-Inductance-Dynamic-Predicted Constant Current Control of LCC-P Compensation Network for Drone Wireless In-Flight Charging. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	1
176	Analysis of brain functional network based on EEG signals for early-stage Parkinson's disease detection. *IEEE Access*, **2022**, 1-1	3.5	0
175	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	4.9	0
174	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	4.2	0
173	Decoding Digital Visual Stimulation From Neural Manifold With Fuzzy Leaning on Cortical Oscillatory Dynamics.. *Frontiers in Computational Neuroscience*, **2022**, 16, 852281	3.5	1
172	Subthalamic and pallidal stimulation in Parkinson's disease induce distinct brain topological reconstruction.. *NeuroImage*, **2022**, 119196	7.9	0
171	The passive properties of dendrites modulate the propagation of slowly-varying firing rate in feedforward networks.. *Neural Networks*, **2022**, 150, 377-391	9.1	
170	SAM: A Unified Self-Adaptive Multicompartmental Spiking Neuron Model for Learning With Working Memory.. *Frontiers in Neuroscience*, **2022**, 16, 850945	5.1	0
169	Adaptive closed-loop control strategy inhibiting pathological basal ganglia oscillations. *Biomedical Signal Processing and Control*, **2022**, 77, 103776	4.9	1
168	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. *IEEE Transactions on Cybernetics*, **2021**, 51, 5046-5056	10.2	4
167	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	10.3	2
166	Closing the loop of DBS using the beta oscillations in cortex. *Cognitive Neurodynamics*, **2021**, 15, 1157-1167	4.2	1
165	Lightweight Learning-Based Automatic Segmentation of Subretinal Blebs on Microscope-Integrated Optical Coherence Tomography Images. *American Journal of Ophthalmology* , **2021**, 221, 154-168	4.9	2
164	Spike-sorting analysis of neural electrical signals evoked by acupuncture based on model. *Cognitive Neurodynamics*, **2021**, 15, 131-140	4.2	1
163	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	4.8	5
162	BiCoSS: Toward Large-Scale Cognition Brain With Multigranular Neuromorphic Architecture. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	54
161	An Embedded Multi-Core Real-Time Simulation Platform of Basal Ganglia for Deep Brain Stimulation. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 1328-1340	4.8	2

160	Efficient Spike-Driven Learning With Dendritic Event-Based Processing. *Frontiers in Neuroscience*, **2021**, 15, 601109	5.1	60
159	Effective suppression of beta oscillation in Parkinsonian state via a noisy direct delayed feedback control scheme*. *Chinese Physics B*, **2021**, 30, 038703	1.2	2
158	Electroencephalographic cross-frequency coupling and multiplex brain network under manual acupuncture stimulation. *Biomedical Signal Processing and Control*, **2021**, 69, 102832	4.9	1
157	Asymptotic Input-Output Relationship Predicts Electric Field Effect on Sublinear Dendritic Integration of AMPA Synapses. *Neural Computation*, **2021**, 33, 3102-3138	2.9	1
156	Adaptive parameter modulation of deep brain stimulation in a computational model of basal ganglia□halamic network. *Nonlinear Dynamics*, **2021**, 106, 945-958	5	1
155	Adaptive Parameter Modulation of Deep Brain Stimulation Based on Improved Supervisory Algorithm. *Frontiers in Neuroscience*, **2021**, 15, 750806	5.1	1
154	A Data Driven Experimental System for Individualized Brain Stimulation Design and Validation. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 1848-1857	4.8	0
153	Spiking Correlation Analysis of Synchronous Spikes Evoked by Acupuncture Mechanical Stimulus. *Frontiers in Computational Neuroscience*, **2020**, 14, 532193	3.5	
152	Functional Integration and Segregation in Multiplex Brain Networks for Alzheimer's Disease. *Frontiers in Neuroscience*, **2020**, 14, 51	5.1	12
151	Characterization of network switching in disorder of consciousness at multiple time scales. *Journal of Neural Engineering*, **2020**, 17, 026024	5	5
150	Scalable Implementation of Hippocampal Network on Digital Neuromorphic System towards Brain-Inspired Intelligence. *Applied Sciences (Switzerland)*, **2020**, 10, 2857	2.6	6
149	Altered inter-frequency dynamics of brain networks in disorder of consciousness. *Journal of Neural Engineering*, **2020**, 17, 036006	5	8
148	Single-Transmitter Multiple-Pickup Wireless Power Transfer: Advantages, Challenges, and Corresponding Technical Solutions. *IEEE Industrial Electronics Magazine*, **2020**, 14, 123-135	6.2	10
147	Spatiotemporal EEG microstate analysis in drug-free patients with Parkinson's disease. *NeuroImage: Clinical*, **2020**, 25, 102132	5.3	15
146	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	4.8	10
145	Fluctuation Scaling of Neuronal Firing and Bursting in Spontaneously Active Brain Circuits. *International Journal of Neural Systems*, **2020**, 30, 1950017	6.2	1
144	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. *Neural Networks*, **2020**, 123, 381-392	9.1	6
143	Identification of Alzheimer's EEG With a WVG Network-Based Fuzzy Learning Approach. *Frontiers in Neuroscience*, **2020**, 14, 641	5.1	8

142	Personalized closed-loop brain stimulation system based on linear state space model identification **2020**,		1
141	Frequency-dependent response in cortical network with periodic electrical stimulation. *Chaos*, **2020** , 30, 073130	3.3	0
140	Model Predictive Control for Seizure Suppression Based on Nonlinear Auto-Regressive Moving-Average Volterra Model. *IEEE Transactions on Neural Systems and Rehabilitation Engineering* , **2020**, 28, 2173-2183	4.8	5
139	Neural Network-Based Closed-Loop Deep Brain Stimulation for Modulation of Pathological Oscillation in Parkinson Disease. *IEEE Access*, **2020**, 8, 161067-161079	3.5	8
138	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. *Evidence-based Complementary and Alternative Medicine*, **2020**, 2020, 2585960	2.3	3
137	Firing Rate Oscillation and Stochastic Resonance in Cortical Networks With Electrical–Chemical Synapses and Time Delay. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 5-13	8.3	6
136	Multiple Stochastic Resonances and Oscillation Transitions in Cortical Networks With Time Delay. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 39-46	8.3	3
135	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	10.3	15
134	Supervised Network-Based Fuzzy Learning of EEG Signals for Alzheimer's Disease Identification. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 60-71	8.3	20
133	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	10.3	146
132	Variation of functional brain connectivity in epileptic seizures: an EEG analysis with cross-frequency phase synchronization. *Cognitive Neurodynamics*, **2020**, 14, 35-49	4.2	17
131	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	4.8	20
130	Robust closed-loop control of spike-and-wave discharges in a thalamocortical computational model of absence epilepsy. *Scientific Reports*, **2019**, 9, 9093	4.9	11
129	Cross-frequency network analysis of functional brain connectivity in temporal lobe epilepsy. *Chinese Physics B*, **2019**, 28, 048702	1.2	2
128	Energy Cost of Action Potential Generation and Propagation in Thalamocortical Relay Neurons During Deep Brain Stimulation. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 3457-3471	5	2
127	Noise-Induced Improvement of the Parkinsonian State: A Computational Study. *IEEE Transactions on Cybernetics*, **2019**, 49, 3655-3664	10.2	7
126	. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 304-318	8.3	19
125	Biomarkers for Alzheimer's Disease Defined by a Novel Brain Functional Network Measure. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 41-49	5	16

124	Digital Implementation of the Retinal Spiking Neural Network under Light Stimulation **2019**,		2
123	Model-Based Evaluation of Closed-Loop Deep Brain Stimulation Controller to Adapt to Dynamic Changes in Reference Signal. *Frontiers in Neuroscience*, **2019**, 13, 956	5.1	15
122	Efficient Implementation of Cerebellar Purkinje Cell With the CORDIC Algorithm on LaCSNN. *Frontiers in Neuroscience*, **2019**, 13, 1078	5.1	4
121	Effect of DBS Targeting Striatum on beta Oscillations in Parkinson Disease **2019**,		1
120	Neural adaptive synchronization control of chaotic FitzHugh-Nagumo neurons in the external electrical stimulation **2019**,		1
119	Metabolic Cost of Dendritic Ca Action Potentials in Layer 5 Pyramidal Neurons. *Frontiers in Neuroscience*, **2019**, 13, 1221	5.1	3
118	Modulations of dendritic Ca spike with weak electric fields in layer 5 pyramidal cells. *Neural Networks*, **2019**, 110, 8-18	9.1	4
117	Real-Time Neuromorphic System for Large-Scale Conductance-Based Spiking Neural Networks. *IEEE Transactions on Cybernetics*, **2019**, 49, 2490-2503	10.2	66
116	Epileptic seizure detection from EEG signals with phase–amplitude cross-frequency coupling and support vector machine. *International Journal of Modern Physics B*, **2018**, 32, 1850086	1.1	9
115	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	4.8	35
114	Modeling and Analysis of Beta Oscillations in the Basal Ganglia. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1864-1875	10.3	6
113	Opportunities and challenges of metamaterial-based wireless power transfer for electric vehicles. *Wireless Power Transfer*, **2018**, 5, 9-19	0.9	9
112	Twin Coil Design Considerations for Depth and Focality in Transcranial Magnetic Stimulation. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	2
111	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, 9260630	2.3	7
110	Topology-Reconfigurable Capacitor Matrix for Encrypted Dynamic Wireless Charging of Electric Vehicles. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 9284-9293	6.8	21
109	Multiple Objective-Based Optimal Energy Distribution for Wireless Power Transfer. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	5
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	4.8	5
107	Cost-efficient FPGA implementation of a biologically plausible dopamine neural network and its application. *Neurocomputing*, **2018**, 314, 394-408	5.4	16

106	Reconstruction of functional brain network in Alzheimer's disease via cross-frequency phase synchronization. *Neurocomputing*, **2018**, 314, 490-500	5.4	19
105	Nonlinear predictive control for adaptive adjustments of deep brain stimulation parameters in basal ganglia-thalamic network. *Neural Networks*, **2018**, 98, 283-295	9.1	12
104	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	3.3	1
103	Epileptic Seizure Detection using DWT Based Weighted Visibility Graph **2018**,		1
102	Analysis and Control of Optimal Power Distribution for Multi-Objective Wireless Charging Systems. *Energies*, **2018**, 11, 1726	3.1	3
101	Complexity Analysis of EEG in AD Patients with Fractional Permutation Entropy **2018**,		1
100	Optimal Design of Quadrature-Shaped Pickup for Omnidirectional Wireless Power Transfer. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	6
99	Closed-Loop Modulation of the Pathological Disorders of the Basal Ganglia Network. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 371-382	10.3	21
98	Stochastic resonance enhancement of small-world neural networks by hybrid synapses and time delay. *Communications in Nonlinear Science and Numerical Simulation*, **2017**, 42, 532-544	3.7	20
97	Noninvasive Brain Stimulation Using Strong-Coupling Effect of Resonant Magnetics. *IEEE Transactions on Magnetics*, **2017**, 53, 1-9	2	6
96	Neural mass models describing possible origin of the excessive beta oscillations correlated with Parkinsonian state. *Neural Networks*, **2017**, 88, 65-73	9.1	21
95	Modulation of Parkinsonian State With Uncertain Disturbance Based on Sliding Mode Control. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2017**, 25, 2026-2034	4.8	2
94	Improved Figure-of-Eight Coil for Transcranial Magnetic Stimulation Using Magnetic Resonant Coupling. *IEEE Transactions on Magnetics*, **2017**, 53, 1-5	2	2
93	Analysis and application of neuronal network controllability and observability. *Chaos*, **2017**, 27, 023103	3.3	6
92	Efficient implementation of a real-time estimation system for thalamocortical hidden Parkinsonian properties. *Scientific Reports*, **2017**, 7, 40152	4.9	10
91	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	3.3	19
90	Functional brain networks in healthy subjects under acupuncture stimulation: An EEG study based on nonlinear synchronization likelihood analysis. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 468, 566-577	3.3	30
89	EEG-based functional networks evoked by acupuncture at ST 36: A data-driven thresholding study. *International Journal of Modern Physics B*, **2017**, 31, 1750187	1.1	3

88	Gamma rhythm low field magnetic stimulation alleviates neuropathologic changes and rescues memory and cognitive impairments in a mouse model of Alzheimer's disease. *Alzheimer's and Dementia: Translational Research and Clinical Interventions*, **2017**, 3, 487-497	6	23
87	FPGA-based hardware simulation of nonlinear autoregressive Volterra model to reconstruct the single neuron spike pattern. *International Journal of Modern Physics B*, **2017**, 31, 1750238	1.1	
86	Action potential initiation in a two-compartment model of pyramidal neuron mediated by dendritic Ca spike. *Scientific Reports*, **2017**, 7, 45684	4.9	9
85	Efficient hardware implementation of the subthalamic nucleus-external globus pallidus oscillation system and its dynamics investigation. *Neural Networks*, **2017**, 94, 220-238	9.1	10
84	Comparative Analysis and Optimization of Dynamic Charging Coils for Roadway-Powered Electric Vehicles. *IEEE Transactions on Magnetics*, **2017**, 53, 1-6	2	28
83	Morphology controls how hippocampal CA1 pyramidal neuron responds to uniform electric fields: a biophysical modeling study. *Scientific Reports*, **2017**, 7, 3210	4.9	16
82	Estimation of key parameters in adaptive neuron model according to firing patterns based on improved particle swarm optimization algorithm. *Modern Physics Letters B*, **2017**, 31, 1750060	1.6	3
81	Multivariate multi-scale weighted permutation entropy analysis of EEG complexity for Alzheimer's disease. *Cognitive Neurodynamics*, **2017**, 11, 217-231	4.2	26
80	Complexity of resting-state EEG activity in the patients with early-stage Parkinson's disease. *Cognitive Neurodynamics*, **2017**, 11, 147-160	4.2	25
79	Fitting of adaptive neuron model to electrophysiological recordings using particle swarm optimization algorithm. *International Journal of Modern Physics B*, **2017**, 31, 1750023	1.1	4
78	Weak electric fields detectability in a noisy neural network. *Cognitive Neurodynamics*, **2017**, 11, 81-90	4.2	19
77	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,	4.6	10
76	Dendritic Properties Control Energy Efficiency of Action Potentials in Cortical Pyramidal Cells. *Frontiers in Cellular Neuroscience*, **2017**, 11, 265	6.1	11
75	Geometric properties-dependent neural synchrony modulated by extracellular subthreshold electric field. *International Journal of Modern Physics B*, **2016**, 30, 1650142	1.1	1
74	Multiple characteristics analysis of Alzheimer's electroencephalogram by power spectral density and Lempel-Ziv complexity. *Cognitive Neurodynamics*, **2016**, 10, 121-33	4.2	28
73	Digital implementations of thalamocortical neuron models and its application in thalamocortical control using FPGA for Parkinson?s disease. *Neurocomputing*, **2016**, 177, 274-289	5.4	25
72	Iterative learning control algorithm for spiking behavior of neuron model. *International Journal of Modern Physics B*, **2016**, 30, 1550240	1.1	1
71	Metabolic Energy of Action Potentials Modulated by Spike Frequency Adaptation. *Frontiers in Neuroscience*, **2016**, 10, 534	5.1	8

70	Input–output mapping reconstruction of spike trains at dorsal horn evoked by manual acupuncture. *International Journal of Modern Physics B*, **2016**, 30, 1550258	1.1	0
69	Reconstruction of neuronal input through modeling single-neuron dynamics and computations. *Chaos*, **2016**, 26, 063121	3.3	2
68	Synchrony analysis using different cross-entropy measures of the electroencephalograph activity in Alzheimer's disease **2016**,		2
67	Particle swarm optimization algorithm based parameters estimation and control of epileptiform spikes in a neural mass model. *Chaos*, **2016**, 26, 073118	3.3	8
66	Principal dynamic mode analysis of neural mass model for the identification of epileptic states. *Chaos*, **2016**, 26, 113118	3.3	1
65	A neural mass model of basal ganglia nuclei simulates pathological beta rhythm in Parkinson's disease. *Chaos*, **2016**, 26, 123113	3.3	11
64	Closed-Loop Control of Tremor-Predominant Parkinsonian State Based on Parameter Estimation. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2016**, 24, 1109-1121	4.8	18
63	An optimal design of dynamic wireless automatic charging system for roadway-powered electric vehicles **2016**,		2
62	LPVG analysis of the EEG activity in Alzheimer's disease patients **2016**,		3
61	Epileptic seizure detection of electroencephalogram based on weighted-permutation entropy **2016** ,		9
60	Local and global synchronization transitions induced by time delays in small-world neuronal networks with chemical synapses. *Cognitive Neurodynamics*, **2015**, 9, 93-101	4.2	7
59	Complexity extraction of electroencephalograms in Alzheimer's disease with weighted-permutation entropy. *Chaos*, **2015**, 25, 043105	3.3	24
58	Dependence of sinusoidal electric field effect on neuronal morphological properties. *International Journal of Modern Physics B*, **2015**, 29, 1550092	1.1	
57	Cost-efficient FPGA implementation of basal ganglia and their Parkinsonian analysis. *Neural Networks*, **2015**, 71, 62-75	9.1	34
56	Multi-FPGA implementation of feedforward network and its performance analysis **2015**,		1
55	Granger causality analysis in the neural mass model **2015**,		1
54	Variable universe fuzzy closed-loop control of tremor predominant Parkinsonian state based on parameter estimation. *Neurocomputing*, **2015**, 151, 1507-1518	5.4	24
53	UKF-based closed loop iterative learning control of epileptiform wave in a neural mass model. *Cognitive Neurodynamics*, **2015**, 9, 31-40	4.2	11

52	Characterization of complexity in the electroencephalograph activity of Alzheimer's disease based on fuzzy entropy. *Chaos*, **2015**, 25, 083116	3.3	45
51	Intrinsic excitability state of local neuronal population modulates signal propagation in feed-forward neural networks. *Chaos*, **2015**, 25, 043108	3.3	9
50	Suppression of seizures based on the multi-coupled neural mass model. *Chaos*, **2015**, 25, 103120	3.3	7
49	Endogenous field feedback promotes the detectability for exogenous electric signal in the hybrid coupled population. *Chaos*, **2015**, 25, 013113	3.3	3
48	Modulation of spike coding by subthreshold extracellular electric fields and neuronal morphology. *International Journal of Modern Physics B*, **2015**, 29, 1550148	1.1	1
47	Input-output relation and energy efficiency in the neuron with different spike threshold dynamics. *Frontiers in Computational Neuroscience*, **2015**, 9, 62	3.5	20
46	Adaptive stochastic resonance in self-organized small-world neuronal networks with time delay. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 29, 346-358	3.7	17
45	Effects of deep brain stimulation amplitude on the basal-ganglia-thalamo-cortical network **2015**,		1
44	Power spectral density and high order bispectral analysis of Alzheimer's EEG **2015**,		1
43	Desynchronization in an ensemble of globally coupled chaotic bursting neuronal oscillators by dynamic delayed feedback control. *International Journal of Modern Physics B*, **2015**, 29, 1450235	1.1	3
42	Multiple feature extraction and classification of electroencephalograph signal for Alzheimers' with spectrum and bispectrum. *Chaos*, **2015**, 25, 013110	3.3	28
41	Power spectral density and coherence analysis of Alzheimer's EEG. *Cognitive Neurodynamics*, **2015**, 9, 291-304	4.2	67
40	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	3.7	9
39	An ephaptic transmission model of CA3 pyramidal cells: an investigation into electric field effects. *Cognitive Neurodynamics*, **2014**, 8, 177-97	4.2	5
38	WLPVG approach to the analysis of EEG-based functional brain network under manual acupuncture. *Cognitive Neurodynamics*, **2014**, 8, 417-28	4.2	27
37	Effects of DC electric fields on neuronal excitability: A bifurcation analysis. *International Journal of Modern Physics B*, **2014**, 28, 1450114	1.1	5
36	Model-based iterative learning control of Parkinsonian state in thalamic relay neuron. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 3255-3266	3.7	11
35	Stochastic resonance in feedforward acupuncture networks. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 3660-3670	3.7	15

34	Theoretical analysis of vibrational resonance in a neuron model near a bifurcation point. *Physical Review E*, **2014**, 89, 062916	2.4	13
33	Effects of spike-time-dependent plasticity on the stochastic resonance of small-world neuronal networks. *Chaos*, **2014**, 24, 033125	3.3	5
32	A combined method to estimate parameters of the thalamocortical model from a heavily noise-corrupted time series of action potential. *Chaos*, **2014**, 24, 013128	3.3	3
31	The implementation of feedforward network on field programmable gate array **2014**,		3
30	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	2	5
29	Decreased coherence and functional connectivity of electroencephalograph in Alzheimer's disease. *Chaos*, **2014**, 24, 033136	3.3	43
28	Neuronal spike initiation modulated by extracellular electric fields. *PLoS ONE*, **2014**, 9, e97481	3.7	24
27	Synchronization of neuron population subject to steady DC electric field induced by magnetic stimulation. *Cognitive Neurodynamics*, **2013**, 7, 237-52	4.2	16
26	Investigation of EEG abnormalities in the early stage of Parkinson's disease. *Cognitive Neurodynamics*, **2013**, 7, 351-9	4.2	69
25	Effects of time delay and random rewiring on the stochastic resonance in excitable small-world neuronal networks. *Physical Review E*, **2013**, 87, 052917	2.4	31
24	Multi-scale order recurrence quantification analysis of EEG signals evoked by manual acupuncture in healthy subjects. *Cognitive Neurodynamics*, **2013**, 7, 79-88	4.2	23
23	Vibrational resonance in feedforward neuronal network with unreliable synapses. *European Physical Journal B*, **2013**, 86, 1	1.2	9
22	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	9.3	8
21	Closed-loop control of the thalamocortical relay neuron's Parkinsonian state based on slow variable. *International Journal of Neural Systems*, **2013**, 23, 1350017	6.2	23
20	Characterizing neural activities evoked by manual acupuncture through spiking irregularity measures. *Chinese Physics B*, **2013**, 22, 098703	1.2	5
19	Decoding acupuncture electrical signals in spinal dorsal root ganglion. *Neurocomputing*, **2012**, 79, 12-17	5.4	13
18	A new deep brain stimulation waveform based on PWM **2011**,		1
17	Characterizing electrical signals evoked by acupuncture through complex network mapping: a new perspective on acupuncture. *Computer Methods and Programs in Biomedicine*, **2011**, 104, 498-504	6.9	15

16	Feedback linearization control of chaos synchronization in coupled map-based neurons under external electrical stimulation. *International Journal of Control, Automation and Systems*, **2011**, 9, 867-874	2.9	4
15	Synchronization of inhibitory coupled Hindmarsh-Rose neurons via adaptive sliding mode control **2011**,		2
14	Parameter estimation in Hodgkin-Huxley model with adaptive method **2011**,		2
13	Characteristics extraction and analysis on the electrical signals of spinal dorsal root nerve evoked by acupuncture manipulations **2011**,		1
12	Chaotic phase synchronization in a modular neuronal network of small-world subnetworks. *Chaos*, **2011**, 21, 043125	3.3	17
11	Stochastic resonance on a modular neuronal network of small-world subnetworks with a subthreshold pacemaker. *Chaos*, **2011**, 21, 047502	3.3	15
10	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	1.5	3
9	Chaos synchronization of coupled neurons under electrical stimulation via robust adaptive fuzzy control. *Nonlinear Dynamics*, **2010**, 61, 847-857	5	19
8	Introducing conditional integrator to sliding mode control of DC/DC buck converter **2009**,		2
7	Chaotic Synchronization of Coupled Hindmarsh-Rose Neurons Using Adaptive Control **2009**,		2
6	Robust Smooth-Trajectory Control of Nonlinear Servo Systems Based on Neural Networks. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 208-217	8.9	19
5	Chaos analysis of the electrical signal time series evoked by acupuncture. *Chaos, Solitons and Fractals*, **2007**, 33, 901-907	9.3	23
4	Bifurcation Analysis of the Hodgkin-Huxley Model Exposed to External DC Electric Field **2007**,		3
3	Adaptive robust control of nonholonomic systems with stochastic disturbances. *Science in China Series F: Information Sciences*, **2006**, 49, 189-207		18
2	Gating function based on transmission delays and stochastic resonance in motif network with FPGA implementation. *Nonlinear Dynamics*,1	5	0
1	Effects of hyperpolarization-active cation current (Ih) on sublinear dendritic integration under applied electric fields. *Nonlinear Dynamics*,1	5	0