

Bin Deng

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

2,595
citations

236912

25
h-index

243610

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173
all docs

173
docs citations

173
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	CerebelluMorphic: Large-Scale Neuromorphic Model and Architecture for Supervised Motor Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4398-4412.	11.3	81
3	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
4	Epileptic Seizure Detection Using Brain-Rhythmic Recurrence Biomarkers and ONASNet-Based Transfer Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 979-989.	4.9	12
5	The passive properties of dendrites modulate the propagation of slowly-varying firing rate in feedforward networks. Neural Networks, 2022, 150, 377-391.	5.9	0
6	SAM: A Unified Self-Adaptive Multicompartmental Spiking Neuron Model for Learning With Working Memory. Frontiers in Neuroscience, 2022, 16, 850945.	2.8	47
7	An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimer's disease. Journal of Neural Engineering, 2022, 19, 036007.	3.5	2
8	Recognition of complex surfaces based on multiscale temporal networks. , 2022, , .		0
9	Bio-inspired computing: A deep learning algorithm with the spike-frequency adaptation. , 2022, , .		3
10	Multi-task learning: A solution of small sample size problem in floor-based gait recognition. , 2022, , .		3
11	Lightweight Learning-Based Automatic Segmentation of Subretinal Blebs on Microscope-Integrated Optical Coherence Tomography Images. American Journal of Ophthalmology, 2021, 221, 154-168.	3.3	6
12	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.	4.9	6
13	Efficient Spike-Driven Learning With Dendritic Event-Based Processing. Frontiers in Neuroscience, 2021, 15, 601109.	2.8	120
14	Propagation of spiking regularity in feedforward networks with recurrent connections. International Journal of Modern Physics B, 2021, 35, 2150101.	2.0	0
15	Asymptotic Input-Output Relationship Predicts Electric Field Effect on Sublinear Dendritic Integration of AMPA Synapses. Neural Computation, 2021, 33, 1-37.	2.2	3
16	Adaptive parameter modulation of deep brain stimulation in a computational model of basal ganglia-thalamic network. Nonlinear Dynamics, 2021, 106, 945-958.	5.2	7
17	Reconstruction of a Fully Paralleled Auditory Spiking Neural Network and FPGA Implementation. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1320-1331.	4.0	4
18	Improving EEG-based Alzheimer's Disease Identification with Generative Adversarial Learning. , 2021, , .		2

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19	Tactile glove-decode and classify the human grasping process. , 2021, , .		4
20	Reconstruction of Brain-inspired Visual Spiking Neural Network on BiCoSS. , 2021, , .		1
21	Firing Rate Oscillation and Stochastic Resonance in Cortical Networks With Electricalâ€“Chemical Synapses and Time Delay. IEEE Transactions on Fuzzy Systems, 2020, 28, 5-13.	9.8	12
22	Multiple Stochastic Resonances and Oscillation Transitions in Cortical Networks With Time Delay. IEEE Transactions on Fuzzy Systems, 2020, 28, 39-46.	9.8	10
23	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
24	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
25	Deep Multi-scale Feature Fusion Convolutional Neural Network for Automatic Epilepsy Detection Using EEG Signals. , 2020, , .		7
26	Personalized closed-loop brain stimulation system based on linear state space model identification. , 2020, , .		2
27	Frequency-dependent response in cortical network with periodic electrical stimulation. Chaos, 2020, 30, 073130.	2.5	3
28	Characterization of Spatial Temporal Dynamic of Brain Network in Disorder of Consciousness via Community Analysis. , 2020, , .		0
29	Functional Integration and Segregation in Multiplex Brain Networks for Alzheimer's Disease. Frontiers in Neuroscience, 2020, 14, 51.	2.8	28
30	A Real-Time On-Demand Deep Brain Stimulation Device Design and Validation. , 2020, , .		0
31	Noise-Induced Improvement of the Parkinsonian State: A Computational Study. IEEE Transactions on Cybernetics, 2019, 49, 3655-3664.	9.5	10
32	Design of Hidden-Property-Based Variable Universe Fuzzy Control for Movement Disorders and Its Efficient Reconfigurable Implementation. IEEE Transactions on Fuzzy Systems, 2019, 27, 304-318.	9.8	34
33	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
34	Digital Implementation of the Retinal Spiking Neural Network under Light Stimulation. , 2019, , .		2
35	Behavior of a Hippocampal Spiking Network and FPGA Implementation. , 2019, , .		0
36	Efficient Implementation of Cerebellar Purkinje Cell With the CORDIC Algorithm on LaCSNN. Frontiers in Neuroscience, 2019, 13, 1078.	2.8	4

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37	Digital Implementation of the Spiking Neural Network and Its Digit Recognition. , 2019, , .		3
38	Effect of DBS Targeting Striatum on beta Oscillations in Parkinsonâ€™s Disease. , 2019, , .		1
39	A real-time virtual manipulator simulation platform based on FPGA. , 2019, , .		0
40	Real-time implementation of the cerebellum neural network. , 2019, , .		1
41	Real-time implementation of the Purkinje network on digital neuromorphic system. , 2019, , .		1
42	Effect of Background Noise on Neuronal Spiking Reliability in Temporal coding-based Spiking Neural Network. , 2019, , .		0
43	Modulations of dendritic Ca^{2+} spike with weak electric fields in layer 5 pyramidal cells. Neural Networks. 2019, 110, 8-18.	5.9	9
44	Real-Time Neuromorphic System for Large-Scale Conductance-Based Spiking Neural Networks. IEEE Transactions on Cybernetics, 2019, 49, 2490-2503.	9.5	95
45	Effect of inhibitory firing patterns on information transmission in feedforward neural networks. , 2019, , .		0
46	Synchronous Oscillations Influenced by Synaptic Dynamics in Visual Cortical Column Model. , 2019, , .		0
47	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
48	Synaptic dynamics regulation in response to high frequency stimulation in neuronal networks. Communications in Nonlinear Science and Numerical Simulation, 2018, 55, 29-41.	3.3	5
49	Opportunities and challenges of metamaterial-based wireless power transfer for electric vehicles. Wireless Power Transfer, 2018, 5, 9-19.	1.1	16
50	Nonlinear predictive control for adaptive adjustments of deep brain stimulation parameters in basal gangliaâ€™thalamic network. Neural Networks, 2018, 98, 283-295.	5.9	19
51	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
52	FPGA-based spiking neural network with hippocampal oscillation dynamics towards biologically meaningful prostheses. , 2018, , .		0
53	Hardware Implementation of the Cerebellar Neural Network with Conductance-based Models. , 2018, , .		0
54	Modelling of the Electromagnetic Field Distributions Induced by Different Transcranial Magnetic Stimulation Coil Configurations. , 2018, , .		1

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55	Characterizing Complexity of Electroencephalograms in Alzheimer's Disease at Multiple Temporal Scales. , 2018, , .		0
56	Cost-efficient FPGA implementation of a biologically plausible dopamine neural network and its application. Neurocomputing, 2018, 314, 394-408.	5.9	27
57	Estimate the effective connectivity in multi-coupled neural mass model using particle swarm optimization. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 89-101.	2.6	4
58	Noninvasive Brain Stimulation Using Strong-Coupling Effect of Resonant Magnetics. IEEE Transactions on Magnetics, 2017, 53, 1-9.	2.1	9
59	Neural mass models describing possible origin of the excessive beta oscillations correlated with Parkinsonian state. Neural Networks, 2017, 88, 65-73.	5.9	28
60	Improved Figure-of-Eight Coil for Transcranial Magnetic Stimulation Using Magnetic Resonant Coupling. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	4
61	Analysis and application of neuronal network controllability and observability. Chaos, 2017, 27, 023103.	2.5	10
62	Efficient implementation of a real-time estimation system for thalamocortical hidden Parkinsonian properties. Scientific Reports, 2017, 7, 40152.	3.3	24
63	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
64	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.	2.0	1
65	Action potential initiation in a two-compartment model of pyramidal neuron mediated by dendritic Ca ²⁺ spike. Scientific Reports, 2017, 7, 45684.	3.3	13
66	Efficient hardware implementation of the subthalamic nucleusâ€™external globus pallidus oscillation system and its dynamics investigation. Neural Networks, 2017, 94, 220-238.	5.9	25
67	Morphology controls how hippocampal CA1 pyramidal neuron responds to uniform electric fields: a biophysical modeling study. Scientific Reports, 2017, 7, 3210.	3.3	24
68	Multivariate multi-scale weighted permutation entropy analysis of EEG complexity for Alzheimerâ€™s disease. Cognitive Neurodynamics, 2017, 11, 217-231.	4.0	47
69	Complexity of resting-state EEG activity in the patients with early-stage Parkinsonâ€™s disease. Cognitive Neurodynamics, 2017, 11, 147-160.	4.0	41
70	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
71	Weak electric fields detectability in a noisy neural network. Cognitive Neurodynamics, 2017, 11, 81-90.	4.0	27
72	Metabolic Energy of Action Potentials Modulated by Spike Frequency Adaptation. Frontiers in Neuroscience, 2016, 10, 534.	2.8	11

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73	Input-output mapping reconstruction of spike trains at dorsal horn evoked by manual acupuncture. International Journal of Modern Physics B, 2016, 30, 1550258.	2.0	1
74	Reconstruction of neuronal input through modeling single-neuron dynamics and computations. Chaos, 2016, 26, 063121.	2.5	2
75	Particle swarm optimization algorithm based parameters estimation and control of epileptiform spikes in a neural mass model. Chaos, 2016, 26, 073118.	2.5	13
76	Principal dynamic mode analysis of neural mass model for the identification of epileptic states. Chaos, 2016, 26, 113118.	2.5	1
77	A neural mass model of basal ganglia nuclei simulates pathological beta rhythm in Parkinson's disease. Chaos, 2016, 26, 123113.	2.5	23
78	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
79	An optimal design of dynamic wireless automatic charging system for roadway-powered electric vehicles. , 2016, , .		2
80	LPVG analysis of the EEG activity in Alzheimer's disease patients. , 2016, , .		4
81	A multi-FPGA embedded system for the emulation of modular small-world network with real time dynamics. , 2016, , .		2
82	Epileptic seizure detection of electroencephalogram based on weighted-permutation entropy. , 2016, , .		12
83	A nonlinear auto-regressive Volterra model based on FPGA. , 2016, , .		0
84	Predictive control for spike pattern modulation of a two-compartment neuron model. Neurocomputing, 2016, 216, 89-101.	5.9	1
85	Improve the estimation of Hurst exponents from visibility graph. , 2016, , .		0
86	The effect of inhibitory feedback on temporal regularity in neural networks. , 2016, , .		0
87	Weak signal detection and propagation in diluted feed-forward neural network with recurrent excitation and inhibition. International Journal of Modern Physics B, 2016, 30, 1550253.	2.0	6
88	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
89	Intrinsic excitability state of local neuronal population modulates signal propagation in feed-forward neural networks. Chaos, 2015, 25, 043108.	2.5	13
90	Suppression of seizures based on the multi-coupled neural mass model. Chaos, 2015, 25, 103120.	2.5	19

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91	Prediction of single neural firings for Hodgkin-Huxley neuron by fitting generalized linear model. , 2015, , .		0
92	Input-output relation and energy efficiency in the neuron with different spike threshold dynamics. Frontiers in Computational Neuroscience, 2015, 9, 62.	2.1	22
93	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
94	Effects of deep brain stimulation amplitude on the basal-ganglia-thalamo-cortical network. , 2015, , .		2
95	A comparison of open-loop and closed-loop DBS to control the thalamic relay neuron's Parkinsonian state. , 2015, , .		0
96	Multiple feature extraction and classification of electroencephalograph signal for Alzheimers' with spectrum and bispectrum. Chaos, 2015, 25, 013110.	2.5	39
97	Power spectral density and coherence analysis of Alzheimer's EEG. Cognitive Neurodynamics, 2015, 9, 291-304.	4.0	125
98	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
99	Complexity extraction of electroencephalograms in Alzheimer's disease with weighted-permutation entropy. Chaos, 2015, 25, 043105.	2.5	34
100	Cost-efficient FPGA implementation of basal ganglia and their Parkinsonian analysis. Neural Networks, 2015, 71, 62-75.	5.9	59
101	Multi-FPGA implementation of feedforward network and its performance analysis. , 2015, , .		1
102	Granger causality analysis in the neural mass model. , 2015, , .		2
103	Variable universe fuzzy closed-loop control of tremor predominant Parkinsonian state based on parameter estimation. Neurocomputing, 2015, 151, 1507-1518.	5.9	31
104	UKF-based closed loop iterative learning control of epileptiform wave in a neural mass model. Cognitive Neurodynamics, 2015, 9, 31-40.	4.0	25
105	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
106	The implementation of feedforward network on field programmable gate array. , 2014, , .		3
107	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
108	Synchronization of Ghostbuster neurons via iterative learning control. , 2014, , .		0

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109	Enhanced stochastic resonance induced by mean field feedback in synaptic coupled networks. , 2014, , .		0
110	Dynamic control of seizure states with input-output linearization method based on the Pinsky-Rinzel model. , 2014, , .		1
111	Decreased coherence and functional connectivity of electroencephalograph in Alzheimer's disease. Chaos, 2014, 24, 033136.	2.5	64
112	Optimal estimation of the parameters affecting the Parkinson's disease state of thalamic cell model. , 2014, , .		0
113	An ephaptic transmission model of CA3 pyramidal cells: an investigation into electric field effects. Cognitive Neurodynamics, 2014, 8, 177-197.	4.0	7
114	WLPVG approach to the analysis of EEG-based functional brain network under manual acupuncture. Cognitive Neurodynamics, 2014, 8, 417-428.	4.0	35
115	Effects of DC electric fields on neuronal excitability: A bifurcation analysis. International Journal of Modern Physics B, 2014, 28, 1450114.	2.0	5
116	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
117	Stochastic resonance in feedforward acupuncture networks. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3660-3670.	3.3	18
118	Delay-induced synchronization transitions in modular scale-free neuronal networks with hybrid electrical and chemical synapses. Physica A: Statistical Mechanics and Its Applications, 2014, 405, 25-34.	2.6	14
119	Theoretical analysis of vibrational resonance in a neuron model near a bifurcation point. Physical Review E, 2014, 89, 062916.	2.1	22
120	Effects of spike-time-dependent plasticity on the stochastic resonance of small-world neuronal networks. Chaos, 2014, 24, 033125.	2.5	9
121	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
122	Network effect on the enhancement of stochastic resonance in a randomly connected neural network. , 2014, , .		0
123	Neuronal Spike Initiation Modulated by Extracellular Electric Fields. PLoS ONE, 2014, 9, e97481.	2.5	29
124	Synchronization of neuron population subject to steady DC electric field induced by magnetic stimulation. Cognitive Neurodynamics, 2013, 7, 237-252.	4.0	16
125	Effects of time delay and random rewiring on the stochastic resonance in excitable small-world neuronal networks. Physical Review E, 2013, 87, 052917.	2.1	37
126	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

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127	Vibrational resonance in feedforward neuronal network with unreliable synapses. European Physical Journal B, 2013, 86, 1.	1.5	13
128	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
129	CLOSED-LOOP CONTROL OF THE THALAMOCORTICAL RELAY NEURON'S PARKINSONIAN STATE BASED ON SLOW VARIABLE. International Journal of Neural Systems, 2013, 23, 1350017.	5.2	28
130	State-space model for estimating acupuncture spike firing rate. , 2013, , .		0
131	The effect of direct-current field on the adaptability in the minimal model. , 2013, , .		0
132	The effect of synaptic time delay on synchronization in small-world neuronal networks. , 2013, , .		0
133	The spike-frequency adaptability of small-world neuronal network under AC electric field. , 2013, , .		1
134	Action potential initial mechanism control of a minimum model response to constant and sinusoidal stimulus. , 2012, , .		0
135	Modeling the electric field effects on heterogeneous Pinsky-Rinzel neurons under ephaptic transmission. , 2012, , .		0
136	Change excitability of Morris-Lecar model via physiological bifurcation control. , 2012, , .		0
137	Delayed feedback control of synchronous activity in a cortical neural network. , 2012, , .		0
138	The effects of external electrical field on a neural network with synaptic plasticity and conduction delays. , 2012, , .		0
139	UKF-based slow-variable control for firing patterns in CA3 neurons. , 2012, , .		0
140	Synchronization between outputs of neurons and neuron populations with discrete control algorithm basing on least-square method. , 2012, , .		0
141	UKF-based adaptive electric fields control of desynchronization for the PR model under the ephaptic transmission. , 2012, , .		0
142	UKF-based state feedback control of abnormal neural oscillations in demyelination symptom. , 2012, , .		0
143	Bifurcation control design for simplified HH neuron model: A physiological approach. , 2012, , .		0
144	The effect of extreme low frequency external alternating-current field on the adaptability in the Ermentrout model. , 2012, , .		0

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145	Input optimal control strategy for the desynchronization of coupled neurons. , 2012, , .		0
146	Effect of hybrid synapses on vibrational resonance in neuron populations with small-world topology. , 2012, , .		0
147	Dynamical encoding of winnerless competition network induced by vibrational resonance. , 2012, , .		0
148	Decoding acupuncture electrical signals in spinal dorsal root ganglion. Neurocomputing, 2012, 79, 12-17.	5.9	15
149	Synchronization of inhibitory coupled Hindmarsh-Rose neurons via adaptive sliding mode control. , 2011, , .		7
150	The structure identification of feedforward neuronal network based on adaptive synchronization. , 2011, , .		0
151	Effect of delay on the synchronization of weakly coupled neurons via gap junctions. , 2011, , .		1
152	Spiking patterns of hippocampus networks in DC electrical field. , 2011, , .		0
153	Parameter estimation in Hodgkin-Huxley model with adaptive method. , 2011, , .		2
154	External electric field effect on the PR neuronal firing under the ephaptic transmission. , 2011, , .		0
155	UKF-based key-parameters compensation control for abnormal firing in PR model. , 2011, , .		0
156	A new deep brain stimulation waveform based on PWM. , 2011, , .		1
157	Phase response properties of a bursting neuron with spike adding structure. , 2011, , .		0
158	Chaotic phase synchronization in small-world networks of bursting neurons. Chaos, 2011, 21, 013127.	2.5	57
159	Topology Estimation of Uncertain General Complex Dynamical Networks from Noisy Time Series. , 2011, , .		0
160	Chaotic phase synchronization in a modular neuronal network of small-world subnetworks. Chaos, 2011, 21, 043125.	2.5	21
161	Stochastic resonance on a modular neuronal network of small-world subnetworks with a subthreshold pacemaker. Chaos, 2011, 21, 047502.	2.5	19
162	Chaos Synchronization of Coupled FitzHugh-Nagumo Neurons Via Adaptive Sliding Mode Control. , 2011, , .		0

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163	Complexity analysis of EEG signals evoked by acupuncture at ‘Zusanli’ acupoint (St36). , 2010, , .		0
164	Vibrational resonance in neuron populations. Chaos, 2010, 20, 013113.	2.5	115
165	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
166	Wavelet packet energy entropy analysis of EEG signals evoked by acupuncture. , 2010, , .		1
167	Chaos synchronization of coupled map-based neurons under external electrical stimulation via decoupling feedback linearization control. , 2010, , .		0
168	Robust output regulation of single-switch quadratic buck converter using internal model. , 2009, , .		0
169	Effect of chemical synapse on vibrational resonance in coupled neurons. Chaos, 2009, 19, 013117.	2.5	82
170	Introducing high-gain internal model to semi-global robust output regulation for minimum-phase nonlinear systems. , 2009, , .		0
171	Introducing conditional integrator to sliding mode control of DC/DC buck converter. , 2009, , .		2
172	A combined method to estimate parameters of neuron from a heavily noise-corrupted time series of active potential. Chaos, 2009, 19, 015105.	2.5	22
173	Chaotic Synchronization of Coupled Hindmarsh-Rose Neurons Using Adaptive Control. , 2009, , .		7