Yanqiu Che

List of Publications by Year
in descending order

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62	600	840728	642715
papers	citations	11 h-index	23 g-index

63	63	63	693
all docs	docs citations	times ranked	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	Adaptive backstepping sliding mode control for chaos synchronization of two coupled neurons in the external electrical stimulation. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1344-1354.	3.3	54
3	Brain Complex Network Characteristic Analysis of Fatigue during Simulated Driving Based on Electroencephalogram Signals. Entropy, 2019, 21, 353.	2.2	44
4	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
5	Vibrational resonance in a randomly connected neural network. Cognitive Neurodynamics, 2018, 12, 509-518.	4.0	22
6	Chaos control and synchronization of two neurons exposed to ELF external electric field. Chaos, Solitons and Fractals, 2007, 34, 839-850.	5.1	21
7	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
8	Parameter estimation of the FitzHugh-Nagumo model using noisy measurements for membrane potential. Chaos, 2012, 22, 023139.	2.5	16
9	Topology identification of uncertain nonlinearly coupled complex networks with delays based on anticipatory synchronization. Chaos, 2013, 23, 013127.	2.5	16
10	Bifurcations in the Hodgkinâ€“Huxley model exposed to DC electric fields. Neurocomputing, 2012, 81, 41-48.	5.9	15
11	Effects of network topologies on stochastic resonance in feedforward neural network. Cognitive Neurodynamics, 2020, 14, 399-409.	4.0	14
12	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.	4.9	12
13	Modulations of dendritic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml109" display="inline" overflow="scroll" altimg="si109.gif"><mml:msup><mml:mrow><mml:mi mathvariant="normal">Ca</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms spike with weak electric fields in layer 5 pyramidal cells. Neural Networks, 2019, 110, 8-18.	5.9	9
14	Spike trains in Hodgkinâ€“Huxley model and ISIs of acupuncture manipulations. Chaos, Solitons and Fractals, 2008, 36, 890-900.	5.1	8
15	Synchronization of inhibitory coupled Hindmarsh-Rose neurons via adaptive sliding mode control. , 2011, , .		7
16	An ephaptic transmission model of CA3 pyramidal cells: an investigation into electric field effects. Cognitive Neurodynamics, 2014, 8, 177-197.	4.0	7
17	Vibrational resonance without tuning in a neuronal parallel array. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 204-210.	2.6	7
18	A CORDIC based real-time implementation and analysis of a respiratory central pattern generator. Neurocomputing, 2021, 423, 373-388.	5.9	7

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19	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.	2.0	6
20	Robust stabilization control of bifurcations in Hodgkin-Huxley model with aid of unscented Kalman filter. Chaos, Solitons and Fractals, 2017, 101, 92-99.	5.1	6
21	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.	4.2	6
22	Patient-specific Seizure Prediction with Scalp EEG Using Convolutional Neural Network and Extreme Learning Machine. , 2020, , .		6
23	Effects of DC electric fields on neuronal excitability: A bifurcation analysis. International Journal of Modern Physics B, 2014, 28, 1450114.	2.0	5
24	Seizure Suppression in a Thalamocortical Computational Model of Absence Epilepsy by Linear Delayed Feedback Control. , 2020, , .		5
25	Endogenous field feedback promotes the detectability for exogenous electric signal in the hybrid coupled population. Chaos, 2015, 25, 013113.	2.5	4
26	Parameter estimation of slow potassium dynamics in a neuron model for seizure-like activity via adaptive lag synchronization and unscented Kalman filter. International Journal of Modern Physics B, 2019, 33, 1950159.	2.0	4
27	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
28	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
29	Effects of couplings on the optimal desynchronizing control of neuronal networks. Neurocomputing, 2016, 175, 736-746.	5.9	3
30	Automatic Detection of Seizures Using Extreme Learning Machine with a Single Feature. , 2018, , .		2
31	Effect of delay on the synchronization of weakly coupled neurons via gap junctions. , 2011, , .		1
32	Spike-frequency adaptation of neural electrical signals evoked by manual acupuncture. , 2014, , .		1
33	Neural network H-infinity synchronization control for time delay chaotic neuronal systems. , 2016, , .		1
34	Contributions of adaptation currents to dynamic spike threshold on slow timescales: Biophysical insights from conductance-based models. Communications in Nonlinear Science and Numerical Simulation, 2017, 47, 81-99.	3.3	1
35	Power spectrum analysis of EEG signals evoked by LED acupuncture in healthy subjects. , 2017, , .		1
36	Digital neuromorphic implementation of the biologically inspired pallidal oscillator. , 2018, , .		1

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37	Calcium conductance-dependent network synchronization is differentially modulated by firing frequency. International Journal of Modern Physics B, 2019, 33, 1950160.	2.0	1
38	Spike-sorting analysis of neural electrical signals evoked by acupuncture based on model. Cognitive Neurodynamics, 2021, 15, 131-140.	4.0	1
39	The structure identification of feedforward neuronal network based on adaptive synchronization. , 2011, , .		0
40	Action potential initial dynamical control of a minimum neuron model. , 2011, , .		0
41	External electric field effect on the PR neuronal firing under the ephaptic transmission. , 2011, , .		0
42	Information communication analysis of EEG signals evoked by manual acupuncture. , 2011, , .		0
43	UKF-based key-parameters compensation control for abnormal firing in PR model. , 2011, , .		0
44	Nonlinear causality analysis of EEG signals evoked by manual acupuncture. , 2011, , .		0
45	Complexity analysis of EEG signals evoked by manual acupuncture. , 2011, , .		0
46	Action potential initial mechanism control of a minimum model response to constant and sinusoidal stimulus. , 2012, , .		0
47	Modeling the electric field effects on heterogeneous Pinsky-Rinzel neurons under ephaptic transmission. , 2012, , .		0
48	Change excitability of Morris-Lecar model via physiological bifurcation control. , 2012, , .		0
49	Robust Adaptive Fuzzy Tracking Control of Stochastic Neuron Systems. , 2012, , .		0
50	Synchronization between outputs of neurons and neuron populations with discrete control algorithm basing on least-square method. , 2012, , .		0
51	UKF-based adaptive electric fields control of desynchronization for the PR model under the ephaptic transmission. , 2012, , .		0
52	Synchronization analysis of EEG signals evoked by manual acupuncture. , 2012, , .		0
53	UKF-based state feedback control of abnormal neural oscillations in demyelination symptom. , 2012, , .		0
54	Bifurcation control design for simplified HH neuron model: A physiological approach. , 2012, , .		0

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55	Input optimal control strategy for the desynchronization of coupled neurons. , 2012, , .		0
56	Effects of synaptic coupling on phase response curve of neurons. , 2014, , .		0
57	A local multi-robot cooperative formation control. , 2018, , .		0
58	Real-time implementation of the coupled neural mass and its application. , 2018, , .		0
59	Vibrational resonance influenced by the neuronal heterogeneity in a random network with time delays. , 2018, , .		0
60	Information Transmission through Temporal Structure in Synchronous spikes. , 2019, , .		0
61	Modulation of neuronal input-output function by subthreshold electric fields from dendritic sublinear integration. , 2019, , .		0
62	Fatigue Driving Vigilance Detection Using Convolutional Neural Networks and Scalp EEG Signals. , 2022, , .		0