

Guosheng Yi

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

450
citations

933410

10
h-index

888047

17
g-index

69
all docs

69
docs citations

69
times ranked

478
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Analysis of complexity and dynamic functional connectivity based on resting-state EEG in early Parkinson's disease patients with mild cognitive impairment. <i>Cognitive Neurodynamics</i> , 2022, 16, 309-323. | 4.0 | 10 |
| 2 | Disrupted Control Architecture of Brain Network in Disorder of Consciousness. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 400-409. | 4.9 | 5 |
| 3 | 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 |
| 4 | Effects of dendritic properties on spike train correlations in biophysically-based model neurons. <i>International Journal of Modern Physics B</i> , 2022, 36, . | 2.0 | 1 |
| 5 | The passive properties of dendrites modulate the propagation of slowly-varying firing rate in feedforward networks. <i>Neural Networks</i> , 2022, 150, 377-391. | 5.9 | 0 |
| 6 | An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimer's disease. <i>Journal of Neural Engineering</i> , 2022, 19, 036007. | 3.5 | 2 |
| 7 | Recognition of complex surfaces based on multiscale temporal networks. , 2022, , . | | 0 |
| 8 | Bio-inspired computing: A deep learning algorithm with the spike-frequency adaptation. , 2022, , . | | 3 |
| 9 | Frequency-Dependent Energy Demand of Dendritic Responses to Deep Brain Stimulation in Thalamic Neurons: A Model-Based Study. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 3056-3068. | 11.3 | 4 |
| 10 | 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 |
| 11 | Propagation of spiking regularity in feedforward networks with recurrent connections. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150101. | 2.0 | 0 |
| 12 | Asymptotic Input-Output Relationship Predicts Electric Field Effect on Sublinear Dendritic Integration of AMPA Synapses. <i>Neural Computation</i> , 2021, 33, 1-37. | 2.2 | 3 |
| 13 | A Data Driven Experimental System for Individualized Brain Stimulation Design and Validation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1848-1857. | 4.9 | 4 |
| 14 | Improving EEG-based Alzheimer's Disease Identification with Generative Adversarial Learning. , 2021, , . | | 2 |
| 15 | Effect of local excitation-inhibition ratio on word recognition in hierarchical spiking neural network. , 2021, , . | | 0 |
| 16 | Deep Multi-scale Feature Fusion Convolutional Neural Network for Automatic Epilepsy Detection Using EEG Signals. , 2020, , . | | 7 |
| 17 | Frequency-dependent response in cortical network with periodic electrical stimulation. <i>Chaos</i> , 2020, 30, 073130. | 2.5 | 3 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Modelling the Neurons Activated by Transcranial Magnetic Stimulation. , 2020, , . | | 0 |
| 20 | EEG Sub-band Abnormality of Early-stage Parkinson's Disease with Mild Cognitive Impairment. , 2020, , . | | 0 |
| 21 | Kilohertz waveforms optimized to produce closed-state Na ⁺ channel inactivation eliminate onset response in nerve conduction block. PLoS Computational Biology, 2020, 16, e1007766. | 3.2 | 12 |
| 22 | Characterization of network switching in disorder of consciousness at multiple time scales. Journal of Neural Engineering, 2020, 17, 026024. | 3.5 | 15 |
| 23 | How the Macroscopic Electric Field Shape Spatio-temporal Response of Neurons by Electroconvulsive Therapy. , 2020, , . | | 0 |
| 24 | A Real-time Simulation Platform Design Based on Neural Mass Model for Deep Brain Stimulation. , 2020, , . | | 0 |
| 25 | Title is missing!. , 2020, 16, e1007766. | | 0 |
| 26 | Title is missing!. , 2020, 16, e1007766. | | 0 |
| 27 | Title is missing!. , 2020, 16, e1007766. | | 0 |
| 28 | Title is missing!. , 2020, 16, e1007766. | | 0 |
| 29 | Efficient Implementation of Cerebellar Purkinje Cell With the CORDIC Algorithm on LaCSNN. Frontiers in Neuroscience, 2019, 13, 1078. | 2.8 | 4 |
| 30 | Deep Transcranial Magnetic Stimulation: Improved Coil Design and Assessment of the Induced Fields Using Realistic Head Model. , 2019, , . | | 0 |
| 31 | Modulation of neuronal input-output function by subthreshold electric fields from dendritic sublinear integration. , 2019, , . | | 0 |
| 32 | Digital Implementation of the Spiking Neural Network and Its Digit Recognition. , 2019, , . | | 3 |
| 33 | 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 |
| 34 | Average firing rate rather than temporal pattern determines metabolic cost of activity in thalamocortical relay neurons. Scientific Reports, 2019, 9, 6940. | 3.3 | 13 |
| 35 | 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 |
| 36 | Real-time implementation of the cerebellum neural network. , 2019, , . | | 1 |

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|----|--|-----|-----------|
| 37 | A novel astrocyte-mediated self-repairing CPG neural network. , 2019, , . | | 1 |
| 38 | Real-time implementation of the Purkinje network on digital neuromorphic system. , 2019, , . | | 1 |
| 39 | Metabolic Cost of Dendritic Ca ²⁺ Action Potentials in Layer 5 Pyramidal Neurons. <i>Frontiers in Neuroscience</i> , 2019, 13, 1221. | 2.8 | 5 |
| 40 | Modulations of dendritic Ca^{2+} spike with weak electric fields in layer 5 pyramidal cells. <i>Neural Networks</i> , 2019, 110, 8-18. | 5.9 | 9 |
| 41 | Modelling of the Electromagnetic Field Distributions Induced by Different Transcranial Magnetic Stimulation Coil Configurations. , 2018, , . | | 1 |
| 42 | Effect of Neural Intrinsic Dynamics on Ionic Energy Consumptions in Action Potential Generations. , 2018, , . | | 0 |
| 43 | Effect of inhibitory firing patterns on the stochastic resonance in feed-forward-loop neuronal network motifs. , 2018, , . | | 1 |
| 44 | Twin Coil Design Considerations for Depth and Focality in Transcranial Magnetic Stimulation. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5. | 2.1 | 5 |
| 45 | Frequency-dependent antidromic activation in thalamocortical relay neurons: effects of synaptic inputs. <i>Journal of Neural Engineering</i> , 2018, 15, 056001. | 3.5 | 16 |
| 46 | Contributions of adaptation currents to dynamic spike threshold on slow timescales: Biophysical insights from conductance-based models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 47, 81-99. | 3.3 | 1 |
| 47 | The dynamical analysis of modified two-compartment neuron model and FPGA implementation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 484, 199-214. | 2.6 | 10 |
| 48 | EEG-based functional networks evoked by acupuncture at ST 36: A data-driven thresholding study. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750187. | 2.0 | 4 |
| 49 | Action potential initiation in a two-compartment model of pyramidal neuron mediated by dendritic Ca ²⁺ spike. <i>Scientific Reports</i> , 2017, 7, 45684. | 3.3 | 13 |
| 50 | 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 |
| 51 | 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 |
| 52 | Comprehensive Survey on Improved Focality and Penetration Depth of Transcranial Magnetic Stimulation Employing Multi-Coil Arrays. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1388. | 2.6 | 11 |
| 53 | Dendritic Properties Control Energy Efficiency of Action Potentials in Cortical Pyramidal Cells. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 265. | 3.7 | 22 |
| 54 | The comparison of electric fields distribution applying various coil configurations in Deep Transcranial magnetic stimulation. , 2017, , . | | 1 |

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|----|---|-----|-----------|
| 55 | Functional connectivity estimation with general linear model. , 2016, , . | | 0 |
| 56 | Minimum energy control for a two-compartment neuron to extracellular electric fields. Communications in Nonlinear Science and Numerical Simulation, 2016, 40, 138-150. | 3.3 | 8 |
| 57 | Dynamics of spike threshold in a two-compartment neuron with passive dendrite. Communications in Nonlinear Science and Numerical Simulation, 2016, 40, 100-111. | 3.3 | 11 |
| 58 | Geometric properties-dependent neural synchrony modulated by extracellular subthreshold electric field. International Journal of Modern Physics B, 2016, 30, 1650142. | 2.0 | 1 |
| 59 | Modulation of spike coding by subthreshold extracellular electric fields and neuronal morphology. International Journal of Modern Physics B, 2015, 29, 1550148. | 2.0 | 1 |
| 60 | Input-output relation and energy efficiency in the neuron with different spike threshold dynamics. Frontiers in Computational Neuroscience, 2015, 9, 62. | 2.1 | 22 |
| 61 | Spike-frequency adaptation of a two-compartment neuron modulated by extracellular electric fields. Biological Cybernetics, 2015, 109, 287-306. | 1.3 | 32 |
| 62 | Action potential threshold of wide dynamic range neurons in rat spinal dorsal horn evoked by manual acupuncture at ST36. Neurocomputing, 2015, 166, 201-209. | 5.9 | 2 |
| 63 | Dependence of sinusoidal electric field effect on neuronal morphological properties. International Journal of Modern Physics B, 2015, 29, 1550092. | 2.0 | 2 |
| 64 | Spike initiating dynamics of the neuron with different adaptation mechanisms to extracellular electric fields. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 574-586. | 3.3 | 10 |
| 65 | 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 |
| 66 | EFFECTS OF EXTREMELY LOW-FREQUENCY MAGNETIC FIELDS ON THE RESPONSE OF A CONDUCTANCE-BASED NEURON MODEL. International Journal of Neural Systems, 2014, 24, 1450007. | 5.2 | 15 |
| 67 | 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 |
| 68 | 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 |
| 69 | Effects of hyperpolarization-active cation current (I _h) on sublinear dendritic integration under applied electric fields. Nonlinear Dynamics, 0, , 1. | 5.2 | 3 |