

Denggui Fan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,125
citations

17
h-index

31
g-index

79
ext. papers

1,380
ext. citations

3.7
avg, IF

5.1
L-index

#	Paper	IF	Citations
78	Synaptic Role in Facilitating Synchronous Theta Oscillations in a Hybrid Hippocampal Neuronal Network.. <i>Frontiers in Computational Neuroscience</i> , 2022 , 16, 791189	3.5	
77	Epileptogenic Zone Location of Temporal Lobe Epilepsy by Cross-Frequency Coupling Analysis. <i>Frontiers in Neurology</i> , 2021 , 12, 764821	4.1	1
76	Discernibility of Topological Variations for Networked LTI Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
75	Formation of multi-agent systems with desired orientation: a distance-based control approach. <i>Nonlinear Dynamics</i> , 2021 , 106, 3351	5	1
74	Epilepsy as a dynamical disorder orchestrated by epileptogenic zone: a review. <i>Nonlinear Dynamics</i> , 2021 , 104, 1901-1916	5	5
73	Robust control of uncertain robotic systems: An adaptive friction compensation approach. <i>Science China Technological Sciences</i> , 2021 , 64, 1228-1237	3.5	2
72	Epileptic seizures in a heterogeneous excitatory network with short-term plasticity. <i>Cognitive Neurodynamics</i> , 2021 , 15, 43-51	4.2	6
71	Dynamical transitions of the coupled Class I (II) neurons regulated by an astrocyte. <i>Nonlinear Dynamics</i> , 2021 , 103, 913-924	5	3
70	An Accelerated Algorithm for Linear Quadratic Optimal Consensus of Heterogeneous Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	4
69	Sharp decrease in the Laplacian matrix rank of phase-space graphs: a potential biomarker in epilepsy. <i>Cognitive Neurodynamics</i> , 2021 , 15, 649-659	4.2	
68	Extracting the transition network of epileptic seizure onset. <i>Chaos</i> , 2021 , 31, 023143	3.3	0
67	Clinically localized seizure focus maybe not exactly the position of abating seizures: a computational evidence. <i>Nonlinear Dynamics</i> , 2021 , 105, 1773-1789	5	0
66	Optimal Preview Controller for Linear Discrete-Time Systems: A Virtual System Method. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-8	1.1	
65	The dynamical role of electromagnetic induction in epileptic seizures: a double-edged sword. <i>Nonlinear Dynamics</i> , 2021 , 106, 975-988	5	0
64	A Rigid Formation Control Approach for Multi-agent Systems with Curvature Constraints. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1
63	Distinguishing Dependent-Stage Secondary Epileptogenesis in a Complex Case of Giant Hypothalamic Hamartoma With Assistance of a Computational Method. <i>Frontiers in Neurology</i> , 2020 , 11, 478	4.1	1
62	Closed-Loop Control of Absence Seizures Inspired by Feedback Modulation of Basal Ganglia to the Corticothalamic Circuit. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 581-590	4.8	6

61	Combinatorial dynamics of protein synthesis time delay and negative feedback loop in NF-B signalling pathway. <i>IET Systems Biology</i> , 2020 , 14, 284-291	1.4	0
60	Model-based optimized phase-deviation deep brain stimulation for Parkinson's disease. <i>Neural Networks</i> , 2020 , 122, 308-319	9.1	6
59	Sliding mode synchronization between uncertain Watts-Strogatz small-world spatiotemporal networks. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 1833-1846	3.2	2
58	The extension of epileptogenicity as the driving force of the epileptogenic network evolution and complex symptoms. <i>Brain Research</i> , 2020 , 1748, 147073	3.7	3
57	Spontaneous transitions to focal-onset epileptic seizures: A dynamical study. <i>Chaos</i> , 2020 , 30, 103114	3.3	4
56	A review of computational modeling and deep brain stimulation: applications to Parkinson's disease. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 1-22	3.2	14
55	Finite-time adaptive formation control for multi-agent systems with uncertainties under collision avoidance and connectivity maintenance. <i>Science China Technological Sciences</i> , 2020 , 63, 2305-2314	3.5	5
54	Improving control effects of absence seizures using single-pulse alternately resetting stimulation (SARS) of corticothalamic circuit. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 1287-1302	3.2	15
53	Generalized projective synchronization for networks with one crucial node and different dimensional nodes via a single controller. <i>Asian Journal of Control</i> , 2020 , 22, 1471-1483	1.7	2
52	Oscillation dynamics in an extended model of thalamic-basal ganglia. <i>Nonlinear Dynamics</i> , 2019 , 98, 1065-1080	5.1	10
51	Matrix projective cluster synchronization for arbitrarily coupled networks with different dimensional nodes via nonlinear control. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 3650-3665	3.6	3
50	Stimulation strategies for absence seizures: targeted therapy of the focus in coupled thalamocortical model. <i>Nonlinear Dynamics</i> , 2019 , 96, 1649-1663	5	10
49	Dynamical analysis of epileptic characteristics based on recurrence quantification of SEEG recordings. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 523, 507-515	3.3	8
48	Synchronization of Coupled FitzHugh-Nagumo Neurons Using Self-Feedback Time Delay. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850031	2	7
47	Predicting seizure by modeling synaptic plasticity based on EEG signals - a case study of inherited epilepsy. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 56, 330-343	3.7	13
46	Localization of Epileptogenic Zone With the Correction of Pathological Networks. <i>Frontiers in Neurology</i> , 2018 , 9, 143	4.1	17
45	Transition Dynamics of Epileptic Seizures in the Coupled Thalamocortical Network Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850104	2	3
44	Synchronous high-frequency oscillations in inhibitory-dominant network motifs consisting of three dentate gyrus-CA3 systems. <i>Chaos</i> , 2018 , 28, 063101	3.3	3

43	Outer synchronization of general colored networks with different-dimensional node via sliding mode control. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850342	1.1	1
42	Improved control effect of absence seizures by autaptic connections to the subthalamic nucleus. <i>Physical Review E</i> , 2018 , 98,	2.4	9
41	Effects of brain-derived neurotrophic factor and noise on transitions in temporal lobe epilepsy in a hippocampal network. <i>Chaos</i> , 2018 , 28, 106322	3.3	1
40	Transition dynamics and adaptive synchronization of time-delay interconnected corticothalamic systems via nonlinear control. <i>Nonlinear Dynamics</i> , 2018 , 94, 2807-2825	5	8
39	Outer synchronization of small-world networks by a second-order sliding mode controller. <i>Nonlinear Dynamics</i> , 2017 , 89, 1817-1826	5	7
38	Transition dynamics of generalized multiple epileptic seizures associated with thalamic reticular nucleus excitability: A computational study. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 52, 203-213	3.7	11
37	Spatiotemporal combination synchronization of different nonlinear objects. <i>Nonlinear Dynamics</i> , 2017 , 87, 271-279	5	2
36	Stimulus-induced transitions between spike-wave discharges and spindles with the modulation of thalamic reticular nucleus. <i>Journal of Computational Neuroscience</i> , 2017 , 43, 203-225	1.4	15
35	Combined Effects of Feedforward Inhibition and Excitation in Thalamocortical Circuit on the Transitions of Epileptic Seizures. <i>Frontiers in Computational Neuroscience</i> , 2017 , 11, 59	3.5	5
34	The pacemaker role of thalamic reticular nucleus in controlling spike-wave discharges and spindles. <i>Chaos</i> , 2017 , 27, 073103	3.3	14
33	Effect of the coordinated reset stimulations on controlling absence seizure. <i>Science China Technological Sciences</i> , 2017 , 60, 985-994	3.5	6
32	Synchronization and bursting transition of the coupled Hindmarsh-Rose systems with asymmetrical time-delays. <i>Science China Technological Sciences</i> , 2017 , 60, 1019-1031	3.5	39
31	Eliminating Absence Seizures through the Deep Brain Stimulation to Thalamus Reticular Nucleus. <i>Frontiers in Computational Neuroscience</i> , 2017 , 11, 22	3.5	18
30	Stimulus-induced Epileptic Spike-Wave Discharges in Thalamocortical Model with Disinhibition. <i>Scientific Reports</i> , 2016 , 6, 37703	4.9	23
29	Disinhibition-Induced Delayed Onset of Epileptic Spike-Wave Discharges in a Five Variable Model of Cortex and Thalamus. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 28	3.5	17
28	Improving desynchronization of Parkinsonian neuronal network via triplet-structure coordinated reset stimulation. <i>Journal of Theoretical Biology</i> , 2015 , 370, 157-70	2.3	21
27	Control of absence seizures induced by the pathways connected to SRN in corticothalamic system. <i>Cognitive Neurodynamics</i> , 2015 , 9, 279-89	4.2	19
26	Disinhibition-induced transitions between absence and tonic-clonic epileptic seizures. <i>Scientific Reports</i> , 2015 , 5, 12618	4.9	37

25	Fastest strategy to achieve given number of neuronal firing in theta model. <i>Neural Networks</i> , 2014 , 53, 134-45	9.1	
24	Finite-Time Containment Control for Second-Order Multiagent Systems Under Directed Topology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014 , 61, 619-623	3.5	57
23	Bifurcation analysis for Hindmarsh-Rose neuronal model with time-delayed feedback control and application to chaos control. <i>Science China Technological Sciences</i> , 2014 , 57, 872-878	3.5	48
22	The conditions for onset of beta oscillations in an extended subthalamic nucleus-globus pallidus network. <i>Science China Technological Sciences</i> , 2014 , 57, 2020-2027	3.5	11
21	Control effects of stimulus paradigms on characteristic firings of parkinsonism. <i>Chaos</i> , 2014 , 24, 033134	3.3	10
20	Noise induced complexity: patterns and collective phenomena in a small-world neuronal network. <i>Cognitive Neurodynamics</i> , 2014 , 8, 143-9	4.2	14
19	Bursting synchronization dynamics of pancreatic β cells with electrical and chemical coupling. <i>Cognitive Neurodynamics</i> , 2013 , 7, 197-212	4.2	24
18	Equilibrium analysis and phase synchronization of two coupled HR neurons with gap junction. <i>Cognitive Neurodynamics</i> , 2013 , 7, 121-31	4.2	40
17	Stimulus-induced transition of clustering firings in neuronal networks with information transmission delay. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	14
16	Suppressing chaos in fractional-order systems by periodic perturbations on system variables. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	7
15	Synchronisation of complex dynamical networks with different dynamics of nodes via decentralised dynamical compensation controllers. <i>International Journal of Control</i> , 2013 , 86, 1766-1776	1.5	8
14	Stabilization and Synchronization of Complex Dynamical Networks With Different Dynamics of Nodes Via Decentralized Controllers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 1786-1795	3.9	56
13	Min-max criterion to the optimal design of vibration absorber in a system with Coulomb friction and viscous damping. <i>Nonlinear Dynamics</i> , 2012 , 70, 393-400	5	9
12	Complex dynamics of compound bursting with burst episode composed of different bursts. <i>Nonlinear Dynamics</i> , 2012 , 70, 2003-2013	5	10
11	Adaptive fuzzy synchronization for a class of chaotic systems with unknown nonlinearities and disturbances. <i>Nonlinear Dynamics</i> , 2012 , 69, 1167-1176	5	20
10	Effect of the heterogeneous neuron and information transmission delay on stochastic resonance of neuronal networks. <i>Chaos</i> , 2012 , 22, 043123	3.3	33
9	NOISE-INDUCED PATTERN FORMATION AND SYNCHRONIZATION IN A SQUARE-LATTICE NEURONAL NETWORK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250115	2	8
8	Synchronous bursts on scale-free neuronal networks with attractive and repulsive coupling. <i>PLoS ONE</i> , 2011 , 6, e15851	3.7	251

7	Bifurcation dynamics of the modified physiological model of artificial pancreas with insulin secretion delay. <i>Nonlinear Dynamics</i> , 2011 , 63, 417-427	5	19
6	Dynamical analysis of bursting oscillations in the Chay-Keizer model with three time scales. <i>Science China Technological Sciences</i> , 2011 , 54, 2024-2032	3.5	13
5	Delay-induced intermittent transition of synchronization in neuronal networks with hybrid synapses. <i>Chaos</i> , 2011 , 21, 013123	3.3	53
4	Synthesizing attractors of Hindmarsh-Rose neuronal systems. <i>Nonlinear Dynamics</i> , 2010 , 62, 437-446	5	10
3	Deep-layer motif method for estimating information flow between EEG signals. <i>Cognitive Neurodynamics</i> , 1	4.2	
2	Model-based optogenetic stimulation to regulate beta oscillations in Parkinsonian neural networks. <i>Cognitive Neurodynamics</i> , 1	4.2	1
1	A review of computational models for gamma oscillation dynamics: from spiking neurons to neural masses. <i>Nonlinear Dynamics</i> , 1	5	