

# Denggui Fan

## List of Publications by Year in descending order

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78  
papers

1,597  
citations

361045

20  
h-index

360668

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g-index

79  
all docs

79  
docs citations

79  
times ranked

1068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronous Bursts on Scale-Free Neuronal Networks with Attractive and Repulsive Coupling. PLoS ONE, 2011, 6, e15851.	1.1	274
2	Stabilization and Synchronization of Complex Dynamical Networks With Different Dynamics of Nodes Via Decentralized Controllers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 1786-1795.	3.5	78
3	Finite-Time Containment Control for Second-Order Multiagent Systems Under Directed Topology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 619-623.	2.2	72
4	Delay-induced intermittent transition of synchronization in neuronal networks with hybrid synapses. Chaos, 2011, 21, 013123.	1.0	57
5	Bifurcation analysis for Hindmarsh-Rose neuronal model with time-delayed feedback control and application to chaos control. Science China Technological Sciences, 2014, 57, 872-878.	2.0	52
6	Synchronization and bursting transition of the coupled Hindmarsh-Rose systems with asymmetrical time-delays. Science China Technological Sciences, 2017, 60, 1019-1031.	2.0	48
7	Equilibrium analysis and phase synchronization of two coupled HR neurons with gap junction. Cognitive Neurodynamics, 2013, 7, 121-131.	2.3	45
8	Effect of the heterogeneous neuron and information transmission delay on stochastic resonance of neuronal networks. Chaos, 2012, 22, 043123.	1.0	44
9	Disinhibition-induced transitions between absence and tonic-clonic epileptic seizures. Scientific Reports, 2015, 5, 12618.	1.6	43
10	A review of computational modeling and deep brain stimulation: applications to Parkinson's disease. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1747-1768.	1.9	42
11	Stimulus-induced Epileptic Spike-Wave Discharges in Thalamocortical Model with Disinhibition. Scientific Reports, 2016, 6, 37703.	1.6	33
12	Improving desynchronization of parkinsonian neuronal network via triplet-structure coordinated reset stimulation. Journal of Theoretical Biology, 2015, 370, 157-170.	0.8	30
13	Eliminating Absence Seizures through the Deep Brain Stimulation to Thalamus Reticular Nucleus. Frontiers in Computational Neuroscience, 2017, 11, 22.	1.2	29
14	Improving control effects of absence seizures using single-pulse alternately resetting stimulation (SARS) of corticothalamic circuit. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1287-1302.	1.9	29
15	Control of absence seizures induced by the pathways connected to SRN in corticothalamic system. Cognitive Neurodynamics, 2015, 9, 279-289.	2.3	27
16	Localization of Epileptogenic Zone With the Correction of Pathological Networks. Frontiers in Neurology, 2018, 9, 143.	1.1	26
17	Bursting synchronization dynamics of pancreatic $\beta$ -cells with electrical and chemical coupling. Cognitive Neurodynamics, 2013, 7, 197-212.	2.3	25
18	Stimulation strategies for absence seizures: targeted therapy of the focus in coupled thalamocortical model. Nonlinear Dynamics, 2019, 96, 1649-1663.	2.7	25

#	ARTICLE	IF	CITATIONS
19	Adaptive fuzzy synchronization for a class of chaotic systems with unknown nonlinearities and disturbances. <i>Nonlinear Dynamics</i> , 2012, 69, 1167-1176.	2.7	23
20	The pacemaker role of thalamic reticular nucleus in controlling spike-wave discharges and spindles. <i>Chaos</i> , 2017, 27, 073103.	1.0	21
21	Bifurcation dynamics of the modified physiological model of artificial pancreas with insulin secretion delay. <i>Nonlinear Dynamics</i> , 2011, 63, 417-427.	2.7	20
22	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.	1.2	20
23	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.	0.6	20
24	Model-based optimized phase-deviation deep brain stimulation for Parkinson's disease. <i>Neural Networks</i> , 2020, 122, 308-319.	3.3	20
25	Noise induced complexity: patterns and collective phenomena in a small-world neuronal network. <i>Cognitive Neurodynamics</i> , 2014, 8, 143-149.	2.3	18
26	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.	1.7	18
27	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.	1.7	18
28	Transition dynamics and adaptive synchronization of time-delay interconnected corticothalamic systems via nonlinear control. <i>Nonlinear Dynamics</i> , 2018, 94, 2807-2825.	2.7	18
29	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.	2.7	17
30	An Accelerated Algorithm for Linear Quadratic Optimal Consensus of Heterogeneous Multiagent Systems. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 421-428.	3.6	17
31	Oscillation dynamics in an extended model of thalamic-basal ganglia. <i>Nonlinear Dynamics</i> , 2019, 98, 1065-1080.	2.7	16
32	Dynamical analysis of bursting oscillations in the Chay-Keizer model with three time scales. <i>Science China Technological Sciences</i> , 2011, 54, 2024-2032.	2.0	15
33	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.	2.0	15
34	Model-based optogenetic stimulation to regulate beta oscillations in Parkinsonian neural networks. <i>Cognitive Neurodynamics</i> , 2022, 16, 667-681.	2.3	15
35	Stimulus-induced transition of clustering firings in neuronal networks with information transmission delay. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	14
36	Improved control effect of absence seizures by autaptic connections to the subthalamic nucleus. <i>Physical Review E</i> , 2018, 98, .	0.8	14

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37	Epileptic seizures in a heterogeneous excitatory network with short-term plasticity. <i>Cognitive Neurodynamics</i> , 2021, 15, 43-51.	2.3	14
38	Epilepsy as a dynamical disorder orchestrated by epileptogenic zone: a review. <i>Nonlinear Dynamics</i> , 2021, 104, 1901-1916.	2.7	14
39	Control effects of stimulus paradigms on characteristic firings of parkinsonism. <i>Chaos</i> , 2014, 24, 033134.	1.0	13
40	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.	1.2	13
41	Synthesizing attractors of Hindmarsh-Rose neuronal systems. <i>Nonlinear Dynamics</i> , 2010, 62, 437-446.	2.7	12
42	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.	2.7	12
43	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.	1.2	12
44	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.	2.0	12
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.	0.7	12
46	A review of computational models for gamma oscillation dynamics: from spiking neurons to neural masses. <i>Nonlinear Dynamics</i> , 2022, 108, 1849-1866.	2.7	12
47	Complex dynamics of compound bursting with burst episode composed of different bursts. <i>Nonlinear Dynamics</i> , 2012, 70, 2003-2013.	2.7	11
48	The dynamical role of electromagnetic induction in epileptic seizures: a double-edged sword. <i>Nonlinear Dynamics</i> , 2021, 106, 975-988.	2.7	11
49	Outer synchronization of small-world networks by a second-order sliding mode controller. <i>Nonlinear Dynamics</i> , 2017, 89, 1817-1826.	2.7	10
50	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.	1.2	10
51	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.	0.7	9
52	Robust control of uncertain robotic systems: An adaptive friction compensation approach. <i>Science China Technological Sciences</i> , 2021, 64, 1228-1237.	2.0	9
53	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.	0.7	8
54	Suppressing chaos in fractional-order systems by periodic perturbations on system variables. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	8

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55	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.	2.1	8
56	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.	1.9	8
57	Spontaneous transitions to focal-onset epileptic seizures: A dynamical study. <i>Chaos</i> , 2020, 30, 103114.	1.0	8
58	Epileptogenic Zone Location of Temporal Lobe Epilepsy by Cross-Frequency Coupling Analysis. <i>Frontiers in Neurology</i> , 2021, 12, 764821.	1.1	8
59	Effect of the coordinated reset stimulations on controlling absence seizure. <i>Science China Technological Sciences</i> , 2017, 60, 985-994.	2.0	7
60	Synchronous high-frequency oscillations in inhibitory-dominant network motifs consisting of three dentate gyrus-CA3 systems. <i>Chaos</i> , 2018, 28, 063101.	1.0	7
61	A Rigid Formation Control Approach for Multi-Agent Systems With Curvature Constraints. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021, 68, 3431-3435.	2.2	7
62	Discernibility of Topological Variations for Networked LTI Systems. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 377-384.	3.6	6
63	Sliding mode synchronization between uncertain Watts-Strogatz small-world spatiotemporal networks. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1833-1846.	1.9	5
64	The extension of epileptogenicity as the driving force of the epileptogenic network evolution and complex symptoms. <i>Brain Research</i> , 2020, 1748, 147073.	1.1	5
65	Dynamical transitions of the coupled Class I (II) neurons regulated by an astrocyte. <i>Nonlinear Dynamics</i> , 2021, 103, 913-924.	2.7	5
66	Formation of multi-agent systems with desired orientation: a distance-based control approach. <i>Nonlinear Dynamics</i> , 2021, 106, 3351-3361.	2.7	5
67	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.	1.1	4
68	Extracting the transition network of epileptic seizure onset. <i>Chaos</i> , 2021, 31, 023143.	1.0	3
69	Spatiotemporal combination synchronization of different nonlinear objects. <i>Nonlinear Dynamics</i> , 2017, 87, 271-279.	2.7	2
70	Effects of brain-derived neurotrophic factor and noise on transitions in temporal lobe epilepsy in a hippocampal network. <i>Chaos</i> , 2018, 28, 106322.	1.0	2
71	Clinically localized seizure focus maybe not exactly the position of abating seizures: a computational evidence. <i>Nonlinear Dynamics</i> , 2021, 105, 1773-1789.	2.7	2
72	Synaptic Role in Facilitating Synchronous Theta Oscillations in a Hybrid Hippocampal Neuronal Network. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, 791189.	1.2	2

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73	Outer synchronization of general colored networks with different-dimensional node via sliding mode control. International Journal of Modern Physics B, 2018, 32, 1850342.	1.0	1
74	Sharp decrease in the Laplacian matrix rank of phase-space graphs: a potential biomarker in epilepsy. Cognitive Neurodynamics, 2021, 15, 649-659.	2.3	1
75	Combinatorial dynamics of protein synthesis time delay and negative feedback loop in NF- $\kappa$ B signalling pathway. IET Systems Biology, 2020, 14, 284-291.	0.8	1
76	Fastest strategy to achieve given number of neuronal firing in theta model. Neural Networks, 2014, 53, 134-145.	3.3	0
77	Optimal Preview Controller for Linear Discrete-Time Systems: A Virtual System Method. Mathematical Problems in Engineering, 2021, 2021, 1-8.	0.6	0
78	Deep-layer motif method for estimating information flow between EEG signals. Cognitive Neurodynamics, 0, , 1.	2.3	0