

# Denggui Fan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3088218/denggui-fan-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Synchronous bursts on scale-free neuronal networks with attractive and repulsive coupling. <i>PLoS ONE</i> , <b>2011</b> , 6, e15851	3.7	251
77	Finite-Time Containment Control for Second-Order Multiagent Systems Under Directed Topology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2014</b> , 61, 619-623	3.5	57
76	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> , <b>2012</b> , 59, 1786-1795	3.9	56
75	Delay-induced intermittent transition of synchronization in neuronal networks with hybrid synapses. <i>Chaos</i> , <b>2011</b> , 21, 013123	3.3	53
74	Bifurcation analysis for Hindmarsh-Rose neuronal model with time-delayed feedback control and application to chaos control. <i>Science China Technological Sciences</i> , <b>2014</b> , 57, 872-878	3.5	48
73	Equilibrium analysis and phase synchronization of two coupled HR neurons with gap junction. <i>Cognitive Neurodynamics</i> , <b>2013</b> , 7, 121-31	4.2	40
72	Synchronization and bursting transition of the coupled Hindmarsh-Rose systems with asymmetrical time-delays. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 1019-1031	3.5	39
71	Disinhibition-induced transitions between absence and tonic-clonic epileptic seizures. <i>Scientific Reports</i> , <b>2015</b> , 5, 12618	4.9	37
70	Effect of the heterogeneous neuron and information transmission delay on stochastic resonance of neuronal networks. <i>Chaos</i> , <b>2012</b> , 22, 043123	3.3	33
69	Bursting synchronization dynamics of pancreatic $\beta$ cells with electrical and chemical coupling. <i>Cognitive Neurodynamics</i> , <b>2013</b> , 7, 197-212	4.2	24
68	Stimulus-induced Epileptic Spike-Wave Discharges in Thalamocortical Model with Disinhibition. <i>Scientific Reports</i> , <b>2016</b> , 6, 37703	4.9	23
67	Improving desynchronization of Parkinsonian neuronal network via triplet-structure coordinated reset stimulation. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 370, 157-70	2.3	21
66	Adaptive fuzzy synchronization for a class of chaotic systems with unknown nonlinearities and disturbances. <i>Nonlinear Dynamics</i> , <b>2012</b> , 69, 1167-1176	5	20
65	Control of absence seizures induced by the pathways connected to SRN in corticothalamic system. <i>Cognitive Neurodynamics</i> , <b>2015</b> , 9, 279-89	4.2	19
64	Bifurcation dynamics of the modified physiological model of artificial pancreas with insulin secretion delay. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 417-427	5	19
63	Eliminating Absence Seizures through the Deep Brain Stimulation to Thalamus Reticular Nucleus. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 22	3.5	18
62	Localization of Epileptogenic Zone With the Correction of Pathological Networks. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 143	4.1	17

61	Disinhibition-Induced Delayed Onset of Epileptic Spike-Wave Discharges in a Five Variable Model of Cortex and Thalamus. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 28	3.5	17
60	Stimulus-induced transitions between spike-wave discharges and spindles with the modulation of thalamic reticular nucleus. <i>Journal of Computational Neuroscience</i> , <b>2017</b> , 43, 203-225	1.4	15
59	Improving control effects of absence seizures using single-pulse alternately resetting stimulation (SARS) of corticothalamic circuit. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1287-1302	3.2	15
58	Stimulus-induced transition of clustering firings in neuronal networks with information transmission delay. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	14
57	The pacemaker role of thalamic reticular nucleus in controlling spike-wave discharges and spindles. <i>Chaos</i> , <b>2017</b> , 27, 073103	3.3	14
56	Noise induced complexity: patterns and collective phenomena in a small-world neuronal network. <i>Cognitive Neurodynamics</i> , <b>2014</b> , 8, 143-9	4.2	14
55	A review of computational modeling and deep brain stimulation: applications to Parkinson's disease. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1-22	3.2	14
54	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> , <b>2018</b> , 56, 330-343	3.7	13
53	Dynamical analysis of bursting oscillations in the Chay-Keizer model with three time scales. <i>Science China Technological Sciences</i> , <b>2011</b> , 54, 2024-2032	3.5	13
52	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> , <b>2017</b> , 52, 203-213	3.7	11
51	The conditions for onset of beta oscillations in an extended subthalamic nucleus-globus pallidus network. <i>Science China Technological Sciences</i> , <b>2014</b> , 57, 2020-2027	3.5	11
50	Oscillation dynamics in an extended model of thalamic-basal ganglia. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 1065-1080	3.10	10
49	Stimulation strategies for absence seizures: targeted therapy of the focus in coupled thalamocortical model. <i>Nonlinear Dynamics</i> , <b>2019</b> , 96, 1649-1663	5	10
48	Control effects of stimulus paradigms on characteristic firings of parkinsonism. <i>Chaos</i> , <b>2014</b> , 24, 033134	3.3	10
47	Complex dynamics of compound bursting with burst episode composed of different bursts. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 2003-2013	5	10
46	Synthesizing attractors of Hindmarsh-Rose neuronal systems. <i>Nonlinear Dynamics</i> , <b>2010</b> , 62, 437-446	5	10
45	Min-max criterion to the optimal design of vibration absorber in a system with Coulomb friction and viscous damping. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 393-400	5	9
44	Improved control effect of absence seizures by autaptic connections to the subthalamic nucleus. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	9

43	Dynamical analysis of epileptic characteristics based on recurrence quantification of SEEG recordings. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 523, 507-515	3.3	8
42	Synchronisation of complex dynamical networks with different dynamics of nodes via decentralised dynamical compensation controllers. <i>International Journal of Control</i> , <b>2013</b> , 86, 1766-1776	1.5	8
41	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> , <b>2012</b> , 22, 1250115	2	8
40	Transition dynamics and adaptive synchronization of time-delay interconnected corticothalamic systems via nonlinear control. <i>Nonlinear Dynamics</i> , <b>2018</b> , 94, 2807-2825	5	8
39	Outer synchronization of small-world networks by a second-order sliding mode controller. <i>Nonlinear Dynamics</i> , <b>2017</b> , 89, 1817-1826	5	7
38	Synchronization of Coupled FitzHugh-Nagumo Neurons Using Self-Feedback Time Delay. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2018</b> , 28, 1850031	2	7
37	Suppressing chaos in fractional-order systems by periodic perturbations on system variables. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	7
36	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> , <b>2020</b> , 28, 581-590	4.8	6
35	Effect of the coordinated reset stimulations on controlling absence seizure. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 985-994	3.5	6
34	Model-based optimized phase-deviation deep brain stimulation for Parkinson's disease. <i>Neural Networks</i> , <b>2020</b> , 122, 308-319	9.1	6
33	Epileptic seizures in a heterogeneous excitatory network with short-term plasticity. <i>Cognitive Neurodynamics</i> , <b>2021</b> , 15, 43-51	4.2	6
32	Combined Effects of Feedforward Inhibition and Excitation in Thalamocortical Circuit on the Transitions of Epileptic Seizures. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 59	3.5	5
31	Finite-time adaptive formation control for multi-agent systems with uncertainties under collision avoidance and connectivity maintenance. <i>Science China Technological Sciences</i> , <b>2020</b> , 63, 2305-2314	3.5	5
30	Epilepsy as a dynamical disorder orchestrated by epileptogenic zone: a review. <i>Nonlinear Dynamics</i> , <b>2021</b> , 104, 1901-1916	5	5
29	Spontaneous transitions to focal-onset epileptic seizures: A dynamical study. <i>Chaos</i> , <b>2020</b> , 30, 103114	3.3	4
28	An Accelerated Algorithm for Linear Quadratic Optimal Consensus of Heterogeneous Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	4
27	Matrix projective cluster synchronization for arbitrarily coupled networks with different dimensional nodes via nonlinear control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 3650-3665	3.6	3
26	Transition Dynamics of Epileptic Seizures in the Coupled Thalamocortical Network Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2018</b> , 28, 1850104	2	3

25	Synchronous high-frequency oscillations in inhibitory-dominant network motifs consisting of three dentate gyrus-CA3 systems. <i>Chaos</i> , <b>2018</b> , 28, 063101	3.3	3
24	The extension of epileptogenicity as the driving force of the epileptogenic network evolution and complex symptoms. <i>Brain Research</i> , <b>2020</b> , 1748, 147073	3.7	3
23	Dynamical transitions of the coupled Class I (II) neurons regulated by an astrocyte. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 913-924	5	3
22	Spatiotemporal combination synchronization of different nonlinear objects. <i>Nonlinear Dynamics</i> , <b>2017</b> , 87, 271-279	5	2
21	Sliding mode synchronization between uncertain Watts-Strogatz small-world spatiotemporal networks. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1833-1846	3.2	2
20	Robust control of uncertain robotic systems: An adaptive friction compensation approach. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 1228-1237	3.5	2
19	Generalized projective synchronization for networks with one crucial node and different dimensional nodes via a single controller. <i>Asian Journal of Control</i> , <b>2020</b> , 22, 1471-1483	1.7	2
18	Distinguishing Dependent-Stage Secondary Epileptogenesis in a Complex Case of Giant Hypothalamic Hamartoma With Assistance of a Computational Method. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 478	4.1	1
17	Epileptogenic Zone Location of Temporal Lobe Epilepsy by Cross-Frequency Coupling Analysis. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 764821	4.1	1
16	Discernibility of Topological Variations for Networked LTI Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	1
15	Formation of multi-agent systems with desired orientation: a distance-based control approach. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 3351	5	1
14	Model-based optogenetic stimulation to regulate beta oscillations in Parkinsonian neural networks. <i>Cognitive Neurodynamics</i> , 1	4.2	1
13	Outer synchronization of general colored networks with different-dimensional node via sliding mode control. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850342	1.1	1
12	Effects of brain-derived neurotrophic factor and noise on transitions in temporal lobe epilepsy in a hippocampal network. <i>Chaos</i> , <b>2018</b> , 28, 106322	3.3	1
11	A Rigid Formation Control Approach for Multi-agent Systems with Curvature Constraints. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
10	Combinatorial dynamics of protein synthesis time delay and negative feedback loop in NF-B signalling pathway. <i>IET Systems Biology</i> , <b>2020</b> , 14, 284-291	1.4	0
9	Extracting the transition network of epileptic seizure onset. <i>Chaos</i> , <b>2021</b> , 31, 023143	3.3	0
8	Clinically localized seizure focus maybe not exactly the position of abating seizures: a computational evidence. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 1773-1789	5	0

7	The dynamical role of electromagnetic induction in epileptic seizures: a double-edged sword. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 975-988	5	0
6	Fastest strategy to achieve given number of neuronal firing in theta model. <i>Neural Networks</i> , <b>2014</b> , 53, 134-45	9.1	
5	Synaptic Role in Facilitating Synchronous Theta Oscillations in a Hybrid Hippocampal Neuronal Network.. <i>Frontiers in Computational Neuroscience</i> , <b>2022</b> , 16, 791189	3.5	
4	Deep-layer motif method for estimating information flow between EEG signals. <i>Cognitive Neurodynamics</i> ,1	4.2	
3	Sharp decrease in the Laplacian matrix rank of phase-space graphs: a potential biomarker in epilepsy. <i>Cognitive Neurodynamics</i> , <b>2021</b> , 15, 649-659	4.2	
2	Optimal Preview Controller for Linear Discrete-Time Systems: A Virtual System Method. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-8	1.1	
1	A review of computational models for gamma oscillation dynamics: from spiking neurons to neural masses. <i>Nonlinear Dynamics</i> ,1	5	