

Igor Belykh

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,196
citations

623734

14
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of the London Millennium Bridge instability without synchronisation. Nature Communications, 2021, 12, 7223.	12.8	12
2	Dispersive versus Dissipative Coupling for Frequency Synchronization in Lasers. Physical Review Applied, 2019, 12, .	3.8	20
3	Synchronization in Multilayer Networks: When Good Links Go Bad. SIAM Journal on Applied Dynamical Systems, 2019, 18, 2267-2302.	1.6	23
4	Overcoming network resilience to synchronization through non-fast stochastic broadcasting. Chaos, 2018, 28, 071104.	2.5	8
5	When two wrongs make a right: synchronized neuronal bursting from combined electrical and inhibitory coupling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160282.	3.4	14
6	Foot force models of crowd dynamics on a wobbly bridge. Science Advances, 2017, 3, e1701512.	10.3	38
7	Synergistic effect of repulsive inhibition in synchronization of excitatory networks. Physical Review E, 2015, 91, 062919.	2.1	28
8	Synchronization in On-Off Stochastic Networks: Windows of Opportunity. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1260-1269.	5.4	64
9	When Transitions Between Bursting Modes Induce Neural Synchrony. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1440013.	1.7	11
10	Dynamical networks with on-off stochastic connections: Beyond fast switching. , 2014, , .		2
11	Spikes matter for phase-locked bursting in inhibitory neurons. Physical Review E, 2012, 85, 036214.	2.1	45
12	Mesoscale and clusters of synchrony in networks of bursting neurons. Chaos, 2011, 21, 016106.	2.5	78
13	Fast reciprocal inhibition can synchronize bursting neurons. Physical Review E, 2010, 81, 045201.	2.1	48
14	Synchrony in tritrophic food chain metacommunities. Journal of Biological Dynamics, 2009, 3, 497-514.	1.7	14
15	When Weak Inhibition Synchronizes Strongly Desynchronizing Networks of Bursting Neurons. Physical Review Letters, 2008, 101, 078102.	7.8	85
16	WHEN SYMMETRIZATION GUARANTEES SYNCHRONIZATION IN DIRECTED NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3387-3395.	1.7	13
17	Generalized connection graph method for synchronization in asymmetrical networks. Physica D: Nonlinear Phenomena, 2006, 224, 42-51.	2.8	91
18	Synchronization in asymmetrically coupled networks with node balance. Chaos, 2006, 16, 015102.	2.5	84

#	ARTICLE	IF	CITATIONS
19	SYNCHRONIZATION AND GRAPH TOPOLOGY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3423-3433.	1.7	140
20	Synchronization of Bursting Neurons: What Matters in the Network Topology. Physical Review Letters, 2005, 94, 188101.	7.8	378