

# Igor Belykh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3433900/publications.pdf>

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	Synchronization of Bursting Neurons: What Matters in the Network Topology. Physical Review Letters, 2005, 94, 188101.	7.8	378
2	SYNCHRONIZATION AND GRAPH TOPOLOGY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3423-3433.	1.7	140
3	Generalized connection graph method for synchronization in asymmetrical networks. Physica D: Nonlinear Phenomena, 2006, 224, 42-51.	2.8	91
4	When Weak Inhibition Synchronizes Strongly Desynchronizing Networks of Bursting Neurons. Physical Review Letters, 2008, 101, 078102.	7.8	85
5	Synchronization in asymmetrically coupled networks with node balance. Chaos, 2006, 16, 015102.	2.5	84
6	Mesoscale and clusters of synchrony in networks of bursting neurons. Chaos, 2011, 21, 016106.	2.5	78
7	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
8	Fast reciprocal inhibition can synchronize bursting neurons. Physical Review E, 2010, 81, 045201.	2.1	48
9	Spikes matter for phase-locked bursting in inhibitory neurons. Physical Review E, 2012, 85, 036214.	2.1	45
10	Foot force models of crowd dynamics on a wobbly bridge. Science Advances, 2017, 3, e1701512.	10.3	38
11	Synergistic effect of repulsive inhibition in synchronization of excitatory networks. Physical Review E, 2015, 91, 062919.	2.1	28
12	Synchronization in Multilayer Networks: When Good Links Go Bad. SIAM Journal on Applied Dynamical Systems, 2019, 18, 2267-2302.	1.6	23
13	Dispersive versus Dissipative Coupling for Frequency Synchronization in Lasers. Physical Review Applied, 2019, 12, .	3.8	20
14	Synchrony in tritrophic food chain metacommunities. Journal of Biological Dynamics, 2009, 3, 497-514.	1.7	14
15	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
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	Emergence of the London Millennium Bridge instability without synchronisation. Nature Communications, 2021, 12, 7223.	12.8	12
18	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

#	ARTICLE	IF	CITATIONS
19	Overcoming network resilience to synchronization through non-fast stochastic broadcasting. Chaos, 2018, 28, 071104.	2.5	8
20	Dynamical networks with on-off stochastic connections: Beyond fast switching. , 2014, , .		2