

Igor V Belykh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5116206/publications.pdf>

Version: 2024-02-01

41
papers

2,571
citations

361413

20
h-index

302126

39
g-index

41
all docs

41
docs citations

41
times ranked

1288
citing authors

#	ARTICLE	IF	CITATIONS
1	Connection graph stability method for synchronized coupled chaotic systems. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 159-187.	2.8	430
2	Synchronization of Bursting Neurons: What Matters in the Network Topology. <i>Physical Review Letters</i> , 2005, 94, 188101.	7.8	378
3	Blinking model and synchronization in small-world networks with a time-varying coupling. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 188-206.	2.8	318
4	Cluster synchronization modes in an ensemble of coupled chaotic oscillators. <i>Physical Review E</i> , 2001, 63, 036216.	2.1	162
5	SYNCHRONIZATION AND GRAPH TOPOLOGY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 3423-3433.	1.7	140
6	Hierarchy and stability of partially synchronous oscillations of diffusively coupled dynamical systems. <i>Physical Review E</i> , 2000, 62, 6332-6345.	2.1	133
7	Generalized connection graph method for synchronization in asymmetrical networks. <i>Physica D: Nonlinear Phenomena</i> , 2006, 224, 42-51.	2.8	91
8	When Weak Inhibition Synchronizes Strongly Desynchronizing Networks of Bursting Neurons. <i>Physical Review Letters</i> , 2008, 101, 078102.	7.8	85
9	Synchronization in asymmetrically coupled networks with node balance. <i>Chaos</i> , 2006, 16, 015102.	2.5	84
10	Mesoscale and clusters of synchrony in networks of bursting neurons. <i>Chaos</i> , 2011, 21, 016106.	2.5	78
11	Polyrhythmic synchronization in bursting networking motifs. <i>Chaos</i> , 2008, 18, 037120.	2.5	64
12	Synchronization in On-Off Stochastic Networks: Windows of Opportunity. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 1260-1269.	5.4	64
13	Evolving dynamical networks. <i>Physica D: Nonlinear Phenomena</i> , 2014, 267, 1-6.	2.8	61
14	Dynamics of Stochastically Blinking Systems. Part II: Asymptotic Properties. <i>SIAM Journal on Applied Dynamical Systems</i> , 2013, 12, 1031-1084.	1.6	60
15	Bistability of patterns of synchrony in Kuramoto oscillators with inertia. <i>Chaos</i> , 2016, 26, 094822.	2.5	45
16	Foot force models of crowd dynamics on a wobbly bridge. <i>Science Advances</i> , 2017, 3, e1701512.	10.3	38
17	HYPERBOLIC PLYKIN ATTRACTOR CAN EXIST IN NEURON MODELS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 3567-3578.	1.7	31
18	Synergistic effect of repulsive inhibition in synchronization of excitatory networks. <i>Physical Review E</i> , 2015, 91, 062919.	2.1	28

#	ARTICLE	IF	CITATIONS
19	Windows of opportunity for synchronization in stochastically coupled maps. <i>Physica D: Nonlinear Phenomena</i> , 2017, 340, 1-13.	2.8	28
20	A Lorenz-type attractor in a piecewise-smooth system: Rigorous results. <i>Chaos</i> , 2019, 29, 103108.	2.5	26
21	Synchronization in Multilayer Networks: When Good Links Go Bad. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 2267-2302.	1.6	23
22	Dispersive versus Dissipative Coupling for Frequency Synchronization in Lasers. <i>Physical Review Applied</i> , 2019, 12, .	3.8	20
23	Sliding homoclinic bifurcations in a Lorenz-type system: Analytic proofs. <i>Chaos</i> , 2021, 31, 043117.	2.5	20
24	When three is a crowd: Chaos from clusters of Kuramoto oscillators with inertia. <i>Physical Review E</i> , 2020, 101, 062206.	2.1	17
25	Memory Matters in Synchronization of Stochastically Coupled Maps. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1372-1396.	1.6	16
26	Synchrony in tritrophic food chain metacommunities. <i>Journal of Biological Dynamics</i> , 2009, 3, 497-514.	1.7	14
27	When two wrongs make a right: synchronized neuronal bursting from combined electrical and inhibitory coupling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160282.	3.4	14
28	WHEN SYMMETRIZATION GUARANTEES SYNCHRONIZATION IN DIRECTED NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3387-3395.	1.7	13
29	Bistable gaits and wobbling induced by pedestrian-bridge interactions. <i>Chaos</i> , 2016, 26, 116314.	2.5	12
30	Emergence of the London Millennium Bridge instability without synchronisation. <i>Nature Communications</i> , 2021, 12, 7223.	12.8	12
31	Synchrony in Metapopulations with Sporadic Dispersal. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015, 25, 1540002.	1.7	8
32	Overcoming network resilience to synchronization through non-fast stochastic broadcasting. <i>Chaos</i> , 2018, 28, 071104.	2.5	8
33	Network Synchronization Through Stochastic Broadcasting. , 2018, 2, 103-108.		7
34	Synchronizability of directed networks: The power of non-existent ties. <i>Chaos</i> , 2020, 30, 043102.	2.5	7
35	Partial synchronization in the second-order Kuramoto model: An auxiliary system method. <i>Chaos</i> , 2021, 31, 113113.	2.5	7
36	Introduction: Collective dynamics of mechanical oscillators and beyond. <i>Chaos</i> , 2016, 26, 116101.	2.5	6

#	ARTICLE	IF	CITATIONS
37	Windows of opportunity for the stability of jump linear systems: Almost sure versus moment convergence. <i>Automatica</i> , 2019, 100, 323-329.	5.0	6
38	Belykh map. <i>Scholarpedia Journal</i> , 2011, 6, 5545.	0.3	6
39	Stability of rotatory solitary states in Kuramoto networks with inertia. <i>Physical Review E</i> , 2022, 105, 024203.	2.1	6
40	Antiresonance in switched systems with only unstable modes. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
41	Dynamics and Control of Stochastically Switching Networks: Beyond Fast Switching. <i>Computational Social Sciences</i> , 2019, , 269-304.	0.4	0