

Igor V Belykh

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

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docs citations

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times ranked

1288
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Stability of rotatory solitary states in Kuramoto networks with inertia. <i>Physical Review E</i> , 2022, 105, 024203. | 2.1 | 6 |
| 2 | Sliding homoclinic bifurcations in a Lorenz-type system: Analytic proofs. <i>Chaos</i> , 2021, 31, 043117. | 2.5 | 20 |
| 3 | Antiresonance in switched systems with only unstable modes. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 5 |
| 4 | Partial synchronization in the second-order Kuramoto model: An auxiliary system method. <i>Chaos</i> , 2021, 31, 113113. | 2.5 | 7 |
| 5 | Emergence of the London Millennium Bridge instability without synchronisation. <i>Nature Communications</i> , 2021, 12, 7223. | 12.8 | 12 |
| 6 | When three is a crowd: Chaos from clusters of Kuramoto oscillators with inertia. <i>Physical Review E</i> , 2020, 101, 062206. | 2.1 | 17 |
| 7 | Synchronizability of directed networks: The power of non-existent ties. <i>Chaos</i> , 2020, 30, 043102. | 2.5 | 7 |
| 8 | A Lorenz-type attractor in a piecewise-smooth system: Rigorous results. <i>Chaos</i> , 2019, 29, 103108. | 2.5 | 26 |
| 9 | Dispersive versus Dissipative Coupling for Frequency Synchronization in Lasers. <i>Physical Review Applied</i> , 2019, 12, . | 3.8 | 20 |
| 10 | Synchronization in Multilayer Networks: When Good Links Go Bad. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 2267-2302. | 1.6 | 23 |
| 11 | 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 |
| 12 | Dynamics and Control of Stochastically Switching Networks: Beyond Fast Switching. <i>Computational Social Sciences</i> , 2019, , 269-304. | 0.4 | 0 |
| 13 | Network Synchronization Through Stochastic Broadcasting. , 2018, 2, 103-108. | | 7 |
| 14 | Overcoming network resilience to synchronization through non-fast stochastic broadcasting. <i>Chaos</i> , 2018, 28, 071104. | 2.5 | 8 |
| 15 | 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 |
| 16 | Memory Matters in Synchronization of Stochastically Coupled Maps. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1372-1396. | 1.6 | 16 |
| 17 | Foot force models of crowd dynamics on a wobbly bridge. <i>Science Advances</i> , 2017, 3, e1701512. | 10.3 | 38 |
| 18 | Windows of opportunity for synchronization in stochastically coupled maps. <i>Physica D: Nonlinear Phenomena</i> , 2017, 340, 1-13. | 2.8 | 28 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Bistable gaits and wobbling induced by pedestrian-bridge interactions. <i>Chaos</i> , 2016, 26, 116314. | 2.5 | 12 |
| 20 | Bistability of patterns of synchrony in Kuramoto oscillators with inertia. <i>Chaos</i> , 2016, 26, 094822. | 2.5 | 45 |
| 21 | Introduction: Collective dynamics of mechanical oscillators and beyond. <i>Chaos</i> , 2016, 26, 116101. | 2.5 | 6 |
| 22 | Synergistic effect of repulsive inhibition in synchronization of excitatory networks. <i>Physical Review E</i> , 2015, 91, 062919. | 2.1 | 28 |
| 23 | 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 |
| 24 | 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 |
| 25 | Evolving dynamical networks. <i>Physica D: Nonlinear Phenomena</i> , 2014, 267, 1-6. | 2.8 | 61 |
| 26 | Dynamics of Stochastically Blinking Systems. Part II: Asymptotic Properties. <i>SIAM Journal on Applied Dynamical Systems</i> , 2013, 12, 1031-1084. | 1.6 | 60 |
| 27 | Mesoscale and clusters of synchrony in networks of bursting neurons. <i>Chaos</i> , 2011, 21, 016106. | 2.5 | 78 |
| 28 | Belykh map. <i>Scholarpedia Journal</i> , 2011, 6, 5545. | 0.3 | 6 |
| 29 | Synchrony in tritrophic food chain metacommunities. <i>Journal of Biological Dynamics</i> , 2009, 3, 497-514. | 1.7 | 14 |
| 30 | Polyrhythmic synchronization in bursting networking motifs. <i>Chaos</i> , 2008, 18, 037120. | 2.5 | 64 |
| 31 | When Weak Inhibition Synchronizes Strongly Desynchronizing Networks of Bursting Neurons. <i>Physical Review Letters</i> , 2008, 101, 078102. | 7.8 | 85 |
| 32 | 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 |
| 33 | Generalized connection graph method for synchronization in asymmetrical networks. <i>Physica D: Nonlinear Phenomena</i> , 2006, 224, 42-51. | 2.8 | 91 |
| 34 | Synchronization in asymmetrically coupled networks with node balance. <i>Chaos</i> , 2006, 16, 015102. | 2.5 | 84 |
| 35 | SYNCHRONIZATION AND GRAPH TOPOLOGY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 3423-3433. | 1.7 | 140 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Synchronization of Bursting Neurons: What Matters in the Network Topology. Physical Review Letters, 2005, 94, 188101. | 7.8 | 378 |
| 38 | Connection graph stability method for synchronized coupled chaotic systems. Physica D: Nonlinear Phenomena, 2004, 195, 159-187. | 2.8 | 430 |
| 39 | Blinking model and synchronization in small-world networks with a time-varying coupling. Physica D: Nonlinear Phenomena, 2004, 195, 188-206. | 2.8 | 318 |
| 40 | Cluster synchronization modes in an ensemble of coupled chaotic oscillators. Physical Review E, 2001, 63, 036216. | 2.1 | 162 |
| 41 | Hierarchy and stability of partially synchronous oscillations of diffusively coupled dynamical systems. Physical Review E, 2000, 62, 6332-6345. | 2.1 | 133 |