

Iryna Omelchenko

List of Publications by Year in descending order

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38
papers

2,634
citations

331259

21
h-index

360668

35
g-index

42
all docs

42
docs citations

42
times ranked

780
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental observation of chimeras in coupled-map lattices. <i>Nature Physics</i> , 2012, 8, 658-661.	6.5	515
2	Loss of Coherence in Dynamical Networks: Spatial Chaos and Chimera States. <i>Physical Review Letters</i> , 2011, 106, 234102.	2.9	366
3	When Nonlocal Coupling between Oscillators Becomes Stronger: Patched Synchrony or Multichimera States. <i>Physical Review Letters</i> , 2013, 110, 224101.	2.9	344
4	Robustness of chimera states for coupled FitzHugh-Nagumo oscillators. <i>Physical Review E</i> , 2015, 91, 022917.	0.8	187
5	Transition from spatial coherence to incoherence in coupled chaotic systems. <i>Physical Review E</i> , 2012, 85, 026212.	0.8	171
6	Chimera states in brain networks: Empirical neural vs. modular fractal connectivity. <i>Chaos</i> , 2018, 28, 045112.	1.0	109
7	Chimera states in networks of Van der Pol oscillators with hierarchical connectivities. <i>Chaos</i> , 2016, 26, 094825.	1.0	98
8	Chimera states in population dynamics: Networks with fragmented and hierarchical connectivities. <i>Physical Review E</i> , 2015, 92, 012915.	0.8	93
9	Quantum signatures of chimera states. <i>Physical Review E</i> , 2015, 92, 062924.	0.8	85
10	Nonlinearity of local dynamics promotes multi-chimeras. <i>Chaos</i> , 2015, 25, 083104.	1.0	81
11	Tweezers for Chimeras in Small Networks. <i>Physical Review Letters</i> , 2016, 116, 114101.	2.9	76
12	Delay controls chimera relay synchronization in multiplex networks. <i>Physical Review E</i> , 2018, 98, .	0.8	63
13	Chimera states in complex networks: interplay of fractal topology and delay. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1883-1892.	1.2	58
14	Clustered chimera states in systems of type-I excitability. <i>New Journal of Physics</i> , 2014, 16, 123039.	1.2	53
15	Delay-induced chimeras in neural networks with fractal topology. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	30
16	Relay synchronization in multiplex networks of discrete maps. <i>Europhysics Letters</i> , 2019, 126, 50004.	0.7	27
17	Effect of topology upon relay synchronization in triplex neuronal networks. <i>Chaos</i> , 2020, 30, 051104.	1.0	27
18	Control of Chimera States in Multilayer Networks. <i>Frontiers in Applied Mathematics and Statistics</i> , 2019, 4, .	0.7	27

#	ARTICLE	IF	CITATIONS
19	Optimal design of tweezer control for chimera states. <i>Physical Review E</i> , 2018, 97, 012216.	0.8	26
20	Complex partial synchronization patterns in networks of delay-coupled neurons. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180128.	1.6	25
21	Controlling chimera states via minimal coupling modification. <i>Chaos</i> , 2019, 29, 051103.	1.0	25
22	Remote pacemaker control of chimera states in multilayer networks of neurons. <i>Physical Review E</i> , 2020, 102, 052216.	0.8	25
23	Chimera states in networks of logistic maps with hierarchical connectivities. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	24
24	Synchronization scenarios of chimeras in multiplex networks. <i>European Physical Journal: Special Topics</i> , 2018, 227, 1161-1171.	1.2	22
25	Robustness of chimera states in nonlocally coupled networks of nonidentical logistic maps. <i>Physical Review E</i> , 2018, 98, 012217.	0.8	19
26	Synchronization of slow-fast systems. <i>European Physical Journal: Special Topics</i> , 2010, 191, 3-14.	1.2	17
27	Structural anomalies in brain networks induce dynamical pacemaker effects. <i>Chaos</i> , 2020, 30, 113137.	1.0	14
28	Two populations of coupled quadratic maps exhibit a plentitude of symmetric and symmetry broken dynamics. <i>Chaos</i> , 2020, 30, 033125.	1.0	6
29	Synchronization between interacting ensembles of globally coupled chaotic maps. <i>Physica D: Nonlinear Phenomena</i> , 2004, 199, 45-60.	1.3	5
30	Synchronization in ensembles of coupled maps with a major element. <i>Discrete Dynamics in Nature and Society</i> , 2005, 2005, 239-255.	0.5	4
31	Multi-chimera states in FitzHugh-Nagumo oscillators. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	4
32	Chimera States in Quantum Mechanics. <i>Understanding Complex Systems</i> , 2016, , 315-336.	0.3	3
33	Intriguing coexistence of synchrony and asynchrony in the brain. <i>Physics of Life Reviews</i> , 2019, 28, 134-136.	1.5	2
34	Stability of synchronized and clustered states in a system of coupled piecewise-linear maps. <i>Nonlinear Oscillations</i> , 2004, 7, 216-227.	0.1	1
35	Systems of Coupled Piecewise-Linear Maps with Central Element: Stability of a Synchronized State. <i>Nonlinear Oscillations</i> , 2005, 8, 44-57.	0.1	1
36	Chimera States in Neuronal Systems of Excitability Type-I. <i>Springer Proceedings in Complexity</i> , 2016, , 247-258.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Analysis of Two-layer Network of FitzHugh-Nagumo Oscillators with Different Layer Topology. IFAC-PapersOnLine, 2018, 51, 235-240.	0.5	0
38	Control of relay synchronization in multiplex networks by time delay. , 2020, , .		0