Iryna Omelchenko

List of Publications by Year
in descending order

38	2,634	331259	360668
papers	citations	21 h-index	35 g-index

42	42	42	780
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural anomalies in brain networks induce dynamical pacemaker effects. Chaos, 2020, 30, 113137.	1.0	14
2	Effect of topology upon relay synchronization in triplex neuronal networks. Chaos, 2020, 30, 051104.	1.0	27
3	Two populations of coupled quadratic maps exhibit a plentitude of symmetric and symmetry broken dynamics. Chaos, 2020, 30, 033125.	1.0	6
4	Remote pacemaker control of chimera states in multilayer networks of neurons. Physical Review E, 2020, 102, 052216.	0.8	25
5	Control of relay synchronization in multiplex networks by time delay. , 2020, , .		0
6	Complex partial synchronization patterns in networks of delay-coupled neurons. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180128.	1.6	25
7	Relay synchronization in multiplex networks of discrete maps. Europhysics Letters, 2019, 126, 50004.	0.7	27
8	Controlling chimera states via minimal coupling modification. Chaos, 2019, 29, 051103.	1.0	25
9	Delay-induced chimeras in neural networks with fractal topology. European Physical Journal B, 2019, 92, 1.	0.6	30
10	Intriguing coexistence of synchrony and asynchrony in the brain. Physics of Life Reviews, 2019, 28, 134-136.	1.5	2
11	Control of Chimera States in Multilayer Networks. Frontiers in Applied Mathematics and Statistics, 2019, 4, .	0.7	27
12	Chimera states in brain networks: Empirical neural vs. modular fractal connectivity. Chaos, 2018, 28, 045112.	1.0	109
13	Chimera states in networks of logistic maps with hierarchical connectivities. European Physical Journal B, 2018, 91, 1.	0.6	24
14	Optimal design of tweezer control for chimera states. Physical Review E, 2018, 97, 012216.	0.8	26
15	Analysis of Two-layer Network of FitzHugh-Nagumo Oscillators with Different Layer Topology. IFAC-PapersOnLine, 2018, 51, 235-240.	0.5	0
16	Delay controls chimera relay synchronization in multiplex networks. Physical Review E, 2018, 98, .	0.8	63
17	Synchronization scenarios of chimeras in multiplex networks. European Physical Journal: Special Topics, 2018, 227, 1161-1171.	1.2	22
18	Robustness of chimera states in nonlocally coupled networks of nonidentical logistic maps. Physical Review E, 2018, 98, 012217.	0.8	19

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19	Chimera states in complex networks: interplay of fractal topology and delay. European Physical Journal: Special Topics, 2017, 226, 1883-1892.	1.2	58
20	Chimera states in networks of Van der Pol oscillators with hierarchical connectivities. Chaos, 2016, 26, 094825.	1.0	98
21	Chimera States in Neuronal Systems of Excitability Type-I. Springer Proceedings in Complexity, 2016, , 247-258.	0.2	1
22	Tweezers for Chimeras in Small Networks. Physical Review Letters, 2016, 116, 114101.	2.9	76
23	Chimera States in Quantum Mechanics. Understanding Complex Systems, 2016, , 315-336.	0.3	3
24	Chimera states in population dynamics: Networks with fragmented and hierarchical connectivities. Physical Review E, 2015, 92, 012915.	0.8	93
25	Quantum signatures of chimera states. Physical Review E, 2015, 92, 062924.	0.8	85
26	Nonlinearity of local dynamics promotes multi-chimeras. Chaos, 2015, 25, 083104.	1.0	81
27	Robustness of chimera states for coupled FitzHugh-Nagumo oscillators. Physical Review E, 2015, 91, 022917.	0.8	187
28	Clustered chimera states in systems of type-I excitability. New Journal of Physics, 2014, 16, 123039.	1.2	53
29	Multi-chimera states in FitzHugh-Nagumo oscillators. BMC Neuroscience, 2013, 14, .	0.8	4
30	When Nonlocal Coupling between Oscillators Becomes Stronger: Patched Synchrony or Multichimera States. Physical Review Letters, 2013, 110, 224101.	2.9	344
31	Transition from spatial coherence to incoherence in coupled chaotic systems. Physical Review E, 2012, 85, 026212.	0.8	171
32	Experimental observation of chimeras in coupled-map lattices. Nature Physics, 2012, 8, 658-661.	6.5	515
33	Loss of Coherence in Dynamical Networks: Spatial Chaos and Chimera States. Physical Review Letters, 2011, 106, 234102.	2.9	366
34	Synchronization of slow-fast systems. European Physical Journal: Special Topics, 2010, 191, 3-14.	1.2	17
35	Systems of Coupled Piecewise-Linear Maps with Central Element: Stability of a Synchronized State. Nonlinear Oscillations, 2005, 8, 44-57.	0.1	1
36	Synchronization in ensembles of coupled maps with a major element. Discrete Dynamics in Nature and Society, 2005, 2005, 239-255.	0.5	4

#	Article	IF	Citations
37	Stability of synchronized and clustered states in a system of coupled piecewise-linear maps. Nonlinear Oscillations, 2004, 7, 216-227.	0.1	1
38	Synchronization between interacting ensembles of globally coupled chaotic maps. Physica D: Nonlinear Phenomena, 2004, 199, 45-60.	1.3	5