Stefano Boccaletti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Complex networks: Structure and dynamics. Physics Reports, 2006, 424, 175-308.	10.3	8,661
2	The structure and dynamics of multilayer networks. Physics Reports, 2014, 544, 1-122.	10.3	2,469
3	The synchronization of chaotic systems. Physics Reports, 2002, 366, 1-101.	10.3	2,314
4	Statistical physics of human cooperation. Physics Reports, 2017, 687, 1-51.	10.3	1,036
5	The control of chaos: theory and applications. Physics Reports, 2000, 329, 103-197.	10.3	770
6	Synchronization is Enhanced in Weighted Complex Networks. Physical Review Letters, 2005, 94, 218701.	2.9	418
7	Emergence of network features from multiplexity. Scientific Reports, 2013, 3, 1344.	1.6	396
8	Explosive Synchronization in Adaptive and Multilayer Networks. Physical Review Letters, 2015, 114, 038701.	2.9	294
9	Pattern formation and competition in nonlinear optics. Physics Reports, 1999, 318, 1-83.	10.3	277
10	Explosive transitions in complex networks' structure and dynamics: Percolation and synchronization. Physics Reports, 2016, 660, 1-94.	10.3	251
11	Social physics. Physics Reports, 2022, 948, 1-148.	10.3	231
12	Modeling the multi-layer nature of the European Air Transport Network: Resilience and passengers re-scheduling under random failures. European Physical Journal: Special Topics, 2013, 215, 23-33.	1.2	226
13	Punishment diminishes the benefits of network reciprocity in social dilemma experiments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 30-35.	3.3	213
14	Eigenvector centrality of nodes in multiplex networks. Chaos, 2013, 23, 033131.	1.0	207
15	Detecting complex network modularity by dynamical clustering. Physical Review E, 2007, 75, 045102.	0.8	194
16	Chimeras. Physics Reports, 2021, 898, 1-114.	10.3	172
17	Synchronization in Complex Networks with Age Ordering. Physical Review Letters, 2005, 94, 138701.	2.9	167
18	Exploiting a cognitive bias promotes cooperation in social dilemma experiments. Nature Communications, 2018, 9, 2954.	5.8	160

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19	Synchronization of Moving Chaotic Agents. Physical Review Letters, 2008, 100, 044102.	2.9	158
20	Characterization of intermittent lag synchronization. Physical Review E, 2000, 62, 7497-7500.	0.8	156
21	Explosive First-Order Transition to Synchrony in Networked Chaotic Oscillators. Physical Review Letters, 2012, 108, 168702.	2.9	154
22	Combining complex networks and data mining: Why and how. Physics Reports, 2016, 635, 1-44.	10.3	139
23	Signatures of noise-enhanced stability in metastable states. Physical Review E, 2005, 72, 061110.	0.8	136
24	Networks of networks $\hat{a} \in$ " An introduction. Chaos, Solitons and Fractals, 2015, 80, 1-6.	2.5	124
25	Reorganization of Functional Networks in Mild Cognitive Impairment. PLoS ONE, 2011, 6, e19584.	1.1	121
26	Unifying framework for synchronization of coupled dynamical systems. Physical Review E, 2001, 63, 066219.	0.8	118
27	Stability of synchronization in simplicial complexes. Nature Communications, 2021, 12, 1255.	5.8	117
28	Complex network theory and the brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130520.	1.8	111
29	Hysteretic transitions in the Kuramoto model with inertia. Physical Review E, 2014, 90, 042905.	0.8	99
30	Inter-layer synchronization in non-identical multi-layer networks. Scientific Reports, 2017, 7, 45475.	1.6	96
31	Synchronization in Nonidentical Extended Systems. Physical Review Letters, 1999, 83, 536-539.	2.9	95
32	Explosive transitions to synchronization in networks of phase oscillators. Scientific Reports, 2013, 3, 1281.	1.6	95
33	Synchronization in networks with multiple interaction layers. Science Advances, 2016, 2, e1601679.	4.7	93
34	Explosive synchronization in weighted complex networks. Physical Review E, 2013, 88, 042808.	0.8	92
35	Synchronization in dynamical networks: Evolution along commutative graphs. Physical Review E, 2006, 74, 016102.	0.8	91
36	Synchronization Interfaces and Overlapping Communities in Complex Networks. Physical Review Letters, 2008, 101, 168701.	2.9	91

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37	The synchronized dynamics of time-varying networks. Physics Reports, 2022, 949, 1-63.	10.3	91
38	Synchronization of Chaotic Systems with Coexisting Attractors. Physical Review Letters, 2006, 96, 244102.	2.9	89
39	Adaptive synchronization of chaos for secure communication. Physical Review E, 1997, 55, 4979-4981.	0.8	86
40	Experimental Characterization of the Transition to Phase Synchronization of ChaoticCO2Laser Systems. Physical Review Letters, 2002, 89, 194101.	2.9	86
41	Dynamic interdependence and competition in multilayer networks. Nature Physics, 2019, 15, 178-185.	6.5	86
42	Principles of recovery from traumatic brain injury: Reorganization of functional networks. Neurolmage, 2011, 55, 1189-1199.	2.1	83
43	Dynamical network model of infective mobile agents. Physical Review E, 2006, 74, 036110.	0.8	79
44	Optimizing Functional Network Representation of Multivariate Time Series. Scientific Reports, 2012, 2, 630.	1.6	79
45	Inter-layer synchronization in multiplex networks of identical layers. Chaos, 2016, 26, 065304.	1.0	79
46	Synchronization in weighted scale-free networks with degree–degree correlation. Physica D: Nonlinear Phenomena, 2006, 224, 123-129.	1.3	76
47	Ring Intermittency in Coupled Chaotic Oscillators at the Boundary of Phase Synchronization. Physical Review Letters, 2006, 97, 114101.	2.9	76
48	Emergence of structural patterns out of synchronization in networks with competitive interactions. Scientific Reports, 2011, 1, 99.	1.6	73
49	Emerging Meso- and Macroscales from Synchronization of Adaptive Networks. Physical Review Letters, 2011, 107, 234103.	2.9	73
50	The Synchronized Dynamics of Complex Systems. Monograph Series on Nonlinear Science and Complexity, 2008, , 1-239.	1.2	69
51	Transition from boundary- to bulk-controlled regimes in optical pattern formation. Physical Review Letters, 1993, 70, 2277-2280.	2.9	68
52	Universal behavior of cascading failures in interdependent networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22452-22457.	3.3	68
53	Coexistence of Quantized, Time Dependent, Clusters in Globally Coupled Oscillators. Physical Review Letters, 2016, 117, 204101.	2.9	67
54	Functional brain networks: great expectations, hard times and the big leap forward. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130525.	1.8	65

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55	The Control of Chaos: Theoretical Schemes and Experimental Realizations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1643-1655.	0.7	63
56	Exact solution for first-order synchronization transition in a generalized Kuramoto model. Scientific Reports, 2014, 4, 7262.	1.6	63
57	Introduction: Control and synchronization in chaotic dynamical systems. Chaos, 2003, 13, 126-127.	1.0	62
58	Multiscale vulnerability of complex networks. Chaos, 2007, 17, 043110.	1.0	62
59	Explosive synchronization as a process of explosive percolation in dynamical phase space. Scientific Reports, 2014, 4, 5200.	1.6	61
60	Macroscopic and microscopic spectral properties of brain networks during local and global synchronization. Physical Review E, 2017, 96, 012316.	0.8	61
61	Adaptive Recognition of a Chaotic Dynamics. Europhysics Letters, 1994, 26, 327-332.	0.7	58
62	Excitability following an avalanche-collapse process. Europhysics Letters, 1997, 38, 85-90.	0.7	58
63	Localized versus delocalized patterns in a nonlinear optical interferometer. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 399-405.	1.4	58
64	Discontinuous Transitions and Rhythmic States in the D-Dimensional Kuramoto Model Induced by a Positive Feedback with the Global Order Parameter. Physical Review Letters, 2020, 125, 194101.	2.9	58
65	Adaptive Control of Chaos. Europhysics Letters, 1995, 31, 127-132.	0.7	57
66	Constructive effects of noise in homoclinic chaotic systems. Physical Review E, 2003, 67, 066220.	0.8	57
67	Synchronization of chaotic structurally nonequivalent systems. Physical Review E, 2000, 61, 3712-3715.	0.8	56
68	Identification of network modules by optimization of ratio association. Chaos, 2007, 17, 023114.	1.0	56
69	Relay synchronization in multiplex networks. Scientific Reports, 2018, 8, 8629.	1.6	56
70	Control of Defects and Spacelike Structures in Delayed Dynamical Systems. Physical Review Letters, 1997, 79, 5246-5249.	2.9	55
71	Synchronizing weighted complex networks. Chaos, 2006, 16, 015106.	1.0	55
72	Controlling and synchronizing space time chaos. Physical Review E, 1999, 59, 6574-6578.	0.8	54

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73	Experimental Phase Synchronization of a Chaotic Convective Flow. Physical Review Letters, 2000, 85, 5567-5570.	2.9	53
74	Reconstructing embedding spaces of coupled dynamical systems from multivariate data. Physical Review E, 2002, 65, 035204.	0.8	53
75	Generalized synchronization in mutually coupled oscillators and complex networks. Physical Review E, 2012, 86, 036216.	0.8	51
76	Noise-enhanced synchronization of homoclinic chaos in aCO2laser. Physical Review E, 2003, 67, 015205.	0.8	50
77	Multilayer representation of collaboration networks with higher-order interactions. Scientific Reports, 2021, 11, 5666.	1.6	50
78	Opinion dynamics and synchronization in a network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 316-325.	1.2	48
79	Experimental evidence of explosive synchronization in mercury beating-heart oscillators. Physical Review E, 2015, 91, 062909.	0.8	48
80	Synchronization properties of network motifs. Europhysics Letters, 2007, 78, 28001.	0.7	47
81	Explosive synchronization coexists with classical synchronization in the Kuramoto model. Chaos, 2016, 26, 065307.	1.0	45
82	Popularity enhances the interdependent network reciprocity. New Journal of Physics, 2018, 20, 123012.	1.2	45
83	Tailoring the profile and interactions of optical localized structures. Physical Review E, 2002, 65, 066204.	0.8	44
84	Winner-weaken-loser-strengthen rule leads to optimally cooperative interdependent networks. Nonlinear Dynamics, 2019, 96, 49-56.	2.7	43
85	Length distribution of laminar phases for type-I intermittency in the presence of noise. Physical Review E, 2007, 76, 026206.	0.8	42
86	Emergent explosive synchronization in adaptive complex networks. Physical Review E, 2018, 97, 042301.	0.8	41
87	Explosive synchronization in populations of cooperative and competitive oscillators. Chaos, Solitons and Fractals, 2020, 132, 109589.	2.5	41
88	A novel route to cyclic dominance in voluntary social dilemmas. Journal of the Royal Society Interface, 2020, 17, 20190789.	1.5	40
89	Asymmetric Coupling Effects in the Synchronization of Spatially Extended Chaotic Systems. Physical Review Letters, 2003, 91, 064103.	2.9	38
90	Targeting the dynamics of complex networks. Scientific Reports, 2012, 2, 396.	1.6	38

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91	Weak Synchronization of Chaotic Coupled Map Lattices. Physical Review Letters, 1998, 81, 3639-3642.	2.9	37
92	Self-organized interdependence among populations promotes cooperation by means of coevolution. Chaos, 2019, 29, 013139.	1.0	37
93	Domain Coexistence in Two-Dimensional Optical Patterns. Physical Review Letters, 1996, 76, 1063-1066.	2.9	36
94	Topological defects after a quench in a Bénard-Marangoni convection system. Physical Review E, 2001, 63, 057301.	0.8	36
95	Emergence of Small-World Anatomical Networks in Self-Organizing Clustered Neuronal Cultures. PLoS ONE, 2014, 9, e85828.	1.1	36
96	Degree mixing and the enhancement of synchronization in complex weighted networks. Physical Review E, 2006, 74, 066107.	0.8	35
97	Dynamics of overlapping structures in modular networks. Physical Review E, 2010, 82, 016115.	0.8	33
98	Growing scale-free simplices. Communications Physics, 2021, 4, .	2.0	33
99	Phase Locking Induces Scale-Free Topologies in Networks of Coupled Oscillators. PLoS ONE, 2008, 3, e2644.	1.1	33
100	The formation of synchronization cliques during the development of modular neural networks. Physical Biology, 2009, 6, 036018.	0.8	32
101	Functional neural networks underlying semantic encoding of associative memories. NeuroImage, 2010, 50, 1258-1270.	2.1	32
102	Emergence of a multilayer structure in adaptive networks of phase oscillators. Chaos, Solitons and Fractals, 2016, 84, 23-30.	2.5	32
103	Generalized synchronization in relay systems with instantaneous coupling. Physical Review E, 2013, 88, 052908.	0.8	31
104	Synchronization and Bellerophon states in conformist and contrarian oscillators. Scientific Reports, 2016, 6, 36713.	1.6	31
105	Chaos suppression through asymmetric coupling. Chaos, 2007, 17, 043107.	1.0	30
106	Effects of degree correlations on the explosive synchronization of scale-free networks. Physical Review E, 2015, 91, 032811.	0.8	30
107	Evolutionary games on simplicial complexes. Chaos, Solitons and Fractals, 2021, 150, 111103.	2.5	30
108	THE LIQUID CRYSTAL LIGHT VALVE WITH OPTICAL FEEDBACK: A CASE STUDY IN PATTERN FORMATION. Journal of Nonlinear Optical Physics and Materials, 2000, 09, 183-204.	1.1	29

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109	Topological Measure Locating the Effective Crossover between Segregation and Integration in a Modular Network. Physical Review Letters, 2012, 108, 228701.	2.9	29
110	Analyses of antigen dependency networks unveil immune system reorganization between birth and adulthood. Chaos, 2011, 21, 016109.	1.0	28
111	Origin of Bellerophon states in globally coupled phase oscillators. Physical Review E, 2018, 98, .	0.8	28
112	Contrarians Synchronize beyond the Limit of Pairwise Interactions. Physical Review Letters, 2021, 127, 258301.	2.9	28
113	Periodic and chaotic alternation in systems with imperfect O(2) symmetry. Physical Review Letters, 1992, 69, 3723-3726.	2.9	27
114	Synchronization of intermittent behavior in ensembles of multistable dynamical systems. Physical Review E, 2015, 91, 032902.	0.8	27
115	Unveiling the multi-fractal structure of complex networks. Chaos, Solitons and Fractals, 2017, 97, 11-14.	2.5	27
116	Inter-layer competition in adaptive multiplex network. New Journal of Physics, 2018, 20, 075004.	1.2	27
117	Convective instabilities of synchronization manifolds in spatially extended systems. Physical Review E, 2004, 69, 047202.	0.8	26
118	Inhomogeneity induces relay synchronization in complex networks. Physical Review E, 2016, 93, 042203.	0.8	26
119	Optical pattern selection by a lateral wave-front shift. Physical Review A, 1996, 54, 3472-3475.	1.0	25
120	Competition of synchronization domains in arrays of chaotic homoclinic systems. Physical Review E, 2003, 68, 066209.	0.8	25
121	Collective dynamics of heterogeneously and nonlinearly coupled phase oscillators. Physical Review Research, 2021, 3, .	1.3	25
122	On the intrinsic time scales involved in synchronization: A data-driven approach. Chaos, 2005, 15, 023904.	1.0	24
123	Assortative and modular networks are shaped by adaptive synchronization processes. Physical Review E, 2012, 86, 015101.	0.8	24
124	Universal phase transitions to synchronization in Kuramoto-like models with heterogeneous coupling. New Journal of Physics, 2019, 21, 113018.	1.2	23
125	Synchronization in slowly switching networks of coupled oscillators. Scientific Reports, 2016, 6, 35979.	1.6	22
126	The dynamics of cooperation in asymmetric sub-populations. New Journal of Physics, 2020, 22, 083015.	1.2	22

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127	D-dimensional oscillators in simplicial structures: Odd and even dimensions display different synchronization scenarios. Chaos, Solitons and Fractals, 2021, 146, 110888.	2.5	22
128	Adaptive strategies for recognition, control and synchronization of chaos. Chaos, Solitons and Fractals, 1997, 8, 1431-1448.	2.5	21
129	Observability coefficients for predicting the class of synchronizability from the algebraic structure of the local oscillators. Physical Review E, 2016, 94, 042205.	0.8	21
130	Detecting and localizing the foci in human epileptic seizures. Chaos, 2007, 17, 043113.	1.0	20
131	Enhancing the stability of the synchronization of multivariable coupled oscillators. Physical Review E, 2015, 92, 032804.	0.8	20
132	Synchronization in starlike networks of phase oscillators. Physical Review E, 2019, 100, 012212.	0.8	20
133	Adaptive targeting of chaos. Physical Review E, 1997, 55, R4845-R4848.	0.8	19
134	Information encoding in homoclinic chaotic systems. Chaos, 2003, 13, 286-290.	1.0	19
135	Synchronization of spatially extended chaotic systems in the presence of asymmetric coupling. Physical Review E, 2004, 70, 036219.	0.8	19
136	Graphical Notation Reveals Topological Stability Criteria for Collective Dynamics in Complex Networks. Physical Review Letters, 2012, 108, 194102.	2.9	19
137	Parenclitic networks: uncovering new functions in biological data. Scientific Reports, 2014, 4, 5112.	1.6	19
138	Impacts of non-GMO standards on poultry supply chain governance: transaction cost approach vs resource-based view. Supply Chain Management, 2016, 21, 743-758.	3.7	19
139	Assortativity and leadership emerge from anti-preferential attachment in heterogeneous networks. Scientific Reports, 2016, 6, 21297.	1.6	19
140	Thresholds for Epidemic Outbreaks in Finite Scale-Free Networks. Mathematical Biosciences and Engineering, 2005, 2, 317-327.	1.0	19
141	Adaptive strategies for recognition, noise filtering, control, synchronization and targeting of chaos. Chaos, 1997, 7, 621-634.	1.0	18
142	Integral behavior for localized synchronization in nonidentical extended systems. Physical Review E, 2000, 62, 6346-6351.	0.8	18
143	Experimental Targeting and Control of Spatiotemporal Chaos in Nonlinear Optics. Physical Review Letters, 2004, 93, 063902.	2.9	18
144	The complex network of musical tastes. New Journal of Physics, 2007, 9, 172-172.	1.2	18

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145	Graphâ€based unsupervised segmentation algorithm for cultured neuronal networks' structure characterization and modeling. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 513-523.	1.1	18
146	CHARACTERIZATION OF SYNCHRONIZED SPATIOTEMPORAL STATES IN COUPLED NONIDENTICAL COMPLEX GINZBURG–LANDAU EQUATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2381-2389.	0.7	17
147	The birth of defects in pattern formation: Testing of the Kibble–Zurek mechanism. European Physical Journal: Special Topics, 2007, 146, 87-98.	1.2	17
148	SYNCHRONIZATION IN NETWORKS OF SLIGHTLY NONIDENTICAL ELEMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 845-850.	0.7	17
149	Experimental approach to the study of complex network synchronization using a single oscillator. Physical Review E, 2009, 79, 055202.	0.8	17
150	Interlayer Hebbian plasticity induces first-order transition in multiplex networks. New Journal of Physics, 2020, 22, 122001.	1.2	17
151	Patterns, space-time chaos and topological defects in nonlinear optics. Physica D: Nonlinear Phenomena, 1992, 61, 25-39.	1.3	16
152	Adaptive recognition and control of chaos. Physica D: Nonlinear Phenomena, 1996, 96, 9-16.	1.3	16
153	EFFECT OF A VARIABLE DELAY IN DELAYED DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2875-2880.	0.7	16
154	Synchronization in networks of spatially extended systems. Chaos, 2008, 18, 023133.	1.0	16
155	Synchronization in dynamical networks with unconstrained structure switching. Physical Review E, 2015, 92, 062819.	0.8	16
156	Effective centrality and explosive synchronization in complex networks. Physical Review E, 2015, 92, 062820.	0.8	16
157	Contagion in simplicial complexes. Chaos, Solitons and Fractals, 2021, 152, 111307.	2.5	16
158	Investigating the fractal properties of geological fault systems: The Main Ethiopian Rift Case. Geophysical Research Letters, 1999, 26, 1633-1636.	1.5	15
159	GROWING HIERARCHICAL SCALE-FREE NETWORKS BY MEANS OF NONHIERARCHICAL PROCESSES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2447-2452.	0.7	15
160	Real-time estimation of interaction delays. Physical Review E, 2009, 80, 036203.	0.8	15
161	Computation Emerges from Adaptive Synchronization of Networking Neurons. PLoS ONE, 2011, 6, e26467.	1.1	15
162	Governance implications of non-GM private standards on poultry meat value chains. British Food Journal, 2015, 117, 2564-2581.	1.6	15

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163	Concurrent enhancement of percolation and synchronization in adaptive networks. Scientific Reports, 2016, 6, 27111.	1.6	15
164	Self-similarity in explosive synchronization of complex networks. Physical Review E, 2017, 96, 062312.	0.8	15
165	Multiple peaks patterns of epidemic spreading in multi-layer networks. Chaos, Solitons and Fractals, 2018, 107, 135-142.	2.5	15
166	Double explosive transitions to synchronization and cooperation in intertwined dynamics and evolutionary games. New Journal of Physics, 2020, 22, 123026.	1.2	15
167	Adaptive recognition and filtering of noise using wavelets. Physical Review E, 1997, 55, 5393-5397.	0.8	14
168	Complex networks analysis of obstructive nephropathy data. Chaos, 2011, 21, 033103.	1.0	14
169	Unveiling Protein Functions through the Dynamics of the Interaction Network. PLoS ONE, 2011, 6, e17679.	1.1	14
170	Interplay between geo-population factors and hierarchy of cities in multilayer urban networks. Scientific Reports, 2017, 7, 17246.	1.6	14
171	Synchronization of chaotic systems: A microscopic description. Physical Review E, 2018, 98, .	0.8	14
172	Epidemic spreading under infection-reduced-recovery. Chaos, Solitons and Fractals, 2020, 140, 110130.	2.5	14
173	Diverse strategic identities induce dynamical states in evolutionary games. Physical Review Research, 2020, 2, .	1.3	14
174	Control of Amplitude Turbulence in Delayed Dynamical Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1843-1848.	0.7	13
175	Experimental control of coherence of a chaotic oscillator. Physical Review E, 2004, 69, 066211.	0.8	13
176	Detecting local synchronization in coupled chaotic systems. Physical Review E, 2004, 69, 036201.	0.8	13
177	In phase and antiphase synchronization of coupled homoclinic chaotic oscillators. Chaos, 2004, 14, 118-122.	1.0	13
178	Synchronization of spontaneous bursting in aCO2laser. Physical Review E, 2006, 74, 066207.	0.8	13
179	Synchronization processes in complex networks. European Physical Journal: Special Topics, 2007, 146, 129-144.	1.2	13
180	Reduced Synchronization Persistence in Neural Networks Derived from Atm-Deficient Mice. Frontiers in Neuroscience, 2011, 5, 46.	1.4	13

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181	Collective stochastic coherence and synchronizability in weighted scale-free networks. New Journal of Physics, 2014, 16, 013036.	1.2	13
182	Emergence of disassortative mixing from pruning nodes in growing scale-free networks. Scientific Reports, 2015, 4, 7536.	1.6	13
183	Controlling Symmetries and Clustered Dynamics of Complex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 282-293.	4.1	13
184	CONTROL AND SYNCHRONIZATION OF SPACE EXTENDED DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2715-2729.	0.7	12
185	Functional Hubs in Mild Cognitive Impairment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550034.	0.7	12
186	Reconstructing multi-mode networks from multivariate time series. Europhysics Letters, 2017, 119, 50008.	0.7	12
187	Double explosive transition in the synchronization of multilayer networks. Physical Review Research, 2022, 4, .	1.3	12
188	Control of localized structures in an optical feedback interferometer. Chaos, 2003, 13, 335-341.	1.0	11
189	Irrational phase synchronization. Physical Review E, 2004, 69, 056228.	0.8	11
190	Frequency entrainment of nonautonomous chaotic oscillators. Physical Review E, 2004, 69, 016208.	0.8	11
191	Controlling spatio-temporal chaos in the scenario of the one-dimensional complex Ginzburg–Landau equation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2383-2395.	1.6	11
192	Introduction: Stability and pattern formation in networks of dynamical systems. Chaos, 2006, 16, 015101.	1.0	11
193	Interplay of delay and multiplexing: Impact on cluster synchronization. Chaos, 2017, 27, 043103.	1.0	11
194	Adaptive control of dynamical synchronization on evolving networks with noise disturbances. Physical Review E, 2018, 97, 022211.	0.8	11
195	Topological synchronization of chaotic systems. Scientific Reports, 2022, 12, 2508.	1.6	11
196	Vector centrality in hypergraphs. Chaos, Solitons and Fractals, 2022, 162, 112397.	2.5	11
197	Collective phase locked states in a chain of coupled chaotic oscillators. Physical Review E, 2002, 65, 055208.	0.8	10
198	Disorder and decision cost in spatial networks. Chaos, 2008, 18, 023103.	1.0	10

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199	Synchronization waves in geometric networks. Physical Review E, 2011, 84, 065101.	0.8	10
200	Defect-enhanced anomaly in frequency synchronization of asymmetrically coupled spatially extended systems. Physical Review E, 2005, 71, 025201.	0.8	9
201	Feature Selection in the Reconstruction of Complex Network Representations of Spectral Data. PLoS ONE, 2013, 8, e72045.	1.1	9
202	Synchronization clusters emerge as the result of a global coupling among classical phase oscillators. New Journal of Physics, 2019, 21, 053002.	1.2	9
203	Chaotic spreading of epidemics in complex networks of excitable units. Mathematical Biosciences and Engineering, 2004, 1, 49-55.	1.0	9
204	SUPEREXCITABILITY INDUCED SPIRAL BREAKUP IN EXCITABLE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1753-1759.	0.7	8
205	Transport induced patterns in an optical system with focussing nonlinearity. Optics Communications, 1997, 136, 267-272.	1.0	8
206	Awaking and sleeping of a complex network. Neural Networks, 2007, 20, 102-108.	3.3	8
207	Active control of the synchronization manifold in a ring of mutually coupled oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 371, 48-57.	0.9	8
208	VULNERABILITY AND FALL OF EFFICIENCY IN COMPLEX NETWORKS: A NEW APPROACH WITH COMPUTATIONAL ADVANTAGES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 727-735.	0.7	8
209	Knowledge Discovery in Spectral Data by Means of Complex Networks. Metabolites, 2013, 3, 155-167.	1.3	8
210	Identifying symmetries and predicting cluster synchronization in complex networks. Chaos, Solitons and Fractals, 2022, 155, 111703.	2.5	8
211	PHASE CLUSTERING AND COLLECTIVE BEHAVIORS IN GLOBALLY COUPLED MAP LATTICES DUE TO MEAN FIELD EFFECTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 829-833.	0.7	7
212	Predicting phase synchronization in a spiking chaoticCO2laser. Physical Review E, 2004, 70, 035204.	0.8	7
213	Coherence resonance in excitable electronic circuits in the presence of colored noise. Physical Review E, 2005, 71, 062101.	0.8	7
214	Node Vulnerability under Finite Perturbations in Complex Networks. PLoS ONE, 2011, 6, e20236.	1,1	7
215	Emergent hybrid synchronization in coupled chaotic systems. Physical Review E, 2015, 91, 022920.	0.8	7
216	Landau damping effects in the synchronization of conformist and contrarian oscillators. Scientific Reports, 2016, 5, 18235.	1.6	7

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