

Jingfang Fan

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

13,992
citations

147801

31
h-index

149698

56
g-index

59
all docs

59
docs citations

59
times ranked

8136
citing authors

#	ARTICLE	IF	CITATIONS
1	Catastrophic cascade of failures in interdependent networks. <i>Nature</i> , 2010, 464, 1025-1028.	27.8	3,326
2	Identification of influential spreaders in complex networks. <i>Nature Physics</i> , 2010, 6, 888-893.	16.7	2,386
3	Resilience of the Internet to Random Breakdowns. <i>Physical Review Letters</i> , 2000, 85, 4626-4628.	7.8	1,911
4	Networks formed from interdependent networks. <i>Nature Physics</i> , 2012, 8, 40-48.	16.7	961
5	Efficient Immunization Strategies for Computer Networks and Populations. <i>Physical Review Letters</i> , 2003, 91, 247901.	7.8	881
6	Robustness of a Network of Networks. <i>Physical Review Letters</i> , 2011, 107, 195701.	7.8	509
7	Modelling urban growth patterns. <i>Nature</i> , 1995, 377, 608-612.	27.8	392
8	Percolation transition in dynamical traffic network with evolving critical bottlenecks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 669-672.	7.1	349
9	Spontaneous recovery in dynamical networks. <i>Nature Physics</i> , 2014, 10, 34-38.	16.7	251
10	Social physics. <i>Physics Reports</i> , 2022, 948, 1-148.	25.6	231
11	Punishment diminishes the benefits of network reciprocity in social dilemma experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 30-35.	7.1	213
12	Robustness of network of networks under targeted attack. <i>Physical Review E</i> , 2013, 87, 052804.	2.1	167
13	Very early warning of next El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2064-2066.	7.1	158
14	Improved El Niño forecasting by cooperativity detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11742-11745.	7.1	136
15	Memory in the Occurrence of Earthquakes. <i>Physical Review Letters</i> , 2005, 95, 208501.	7.8	130
16	Percolation of partially interdependent scale-free networks. <i>Physical Review E</i> , 2013, 87, 052812.	2.1	103
17	Percolation of a general network of networks. <i>Physical Review E</i> , 2013, 88, 062816.	2.1	103
18	Recent advances on failure and recovery in networks of networks. <i>Chaos, Solitons and Fractals</i> , 2016, 90, 28-36.	5.1	84

#	ARTICLE	IF	CITATIONS
19	Recent Progress on the Resilience of Complex Networks. <i>Energies</i> , 2015, 8, 12187-12210.	3.1	82
20	Resilience of networks with community structure behaves as if under an external field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6911-6915.	7.1	82
21	Teleconnection Paths via Climate Network Direct Link Detection. <i>Physical Review Letters</i> , 2015, 115, 268501.	7.8	80
22	Multiple tipping points and optimal repairing in interacting networks. <i>Nature Communications</i> , 2016, 7, 10850.	12.8	79
23	Statistical physics approaches to the complex Earth system. <i>Physics Reports</i> , 2021, 896, 1-84.	25.6	79
24	Network analysis reveals strongly localized impacts of El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7543-7548.	7.1	76
25	Dominant Imprint of Rossby Waves in the Climate Network. <i>Physical Review Letters</i> , 2013, 111, 138501.	7.8	70
26	Resilience of networks formed of interdependent modular networks. <i>New Journal of Physics</i> , 2015, 17, 123007.	2.9	51
27	Percolation framework to describe El Niño conditions. <i>Chaos</i> , 2017, 27, 035807.	2.5	48
28	Critical tipping point distinguishing two types of transitions in modular network structures. <i>Physical Review E</i> , 2015, 92, 062805.	2.1	43
29	Optimal resilience of modular interacting networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
30	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 177-183.	7.1	37
31	Continuous percolation phase transitions of random networks under a generalized Achlioptas process. <i>Physical Review E</i> , 2012, 85, 061110.	2.1	36
32	Significant Impact of Rossby Waves on Air Pollution Detected by Network Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 12476-12485.	4.0	28
33	Epidemic spreading on modular networks: The fear to declare a pandemic. <i>Physical Review E</i> , 2020, 101, 032309.	2.1	27
34	Climate network percolation reveals the expansion and weakening of the tropical component under global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12128-E12134.	7.1	26
35	Universal gap scaling in percolation. <i>Nature Physics</i> , 2020, 16, 455-461.	16.7	25
36	Network-based forecasting of climate phenomena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	24

#	ARTICLE	IF	CITATIONS
37	Structural resilience of spatial networks with inter-links behaving as an external field. <i>New Journal of Physics</i> , 2018, 20, 093003.	2.9	15
38	General clique percolation in random networks. <i>Europhysics Letters</i> , 2014, 107, 28005.	2.0	14
39	Correlation and scaling behaviors of fine particulate matter (PM _{2.5}) concentration in China. <i>Europhysics Letters</i> , 2018, 122, 58003.	2.0	14
40	Epidemic spreading and control strategies in spatial modular network. <i>Applied Network Science</i> , 2020, 5, 95.	1.5	13
41	Eigen microstates and their evolutions in complex systems. <i>Communications in Theoretical Physics</i> , 2021, 73, 065603.	2.5	13
42	Localized attack on networks with clustering. <i>New Journal of Physics</i> , 2019, 21, 013014.	2.9	10
43	Scaling laws in earthquake memory for interevent times and distances. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
44	Network approaches to climate science. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	9
45	Possible origin of memory in earthquakes: Real catalogs and an epidemic-type aftershock sequence model. <i>Physical Review E</i> , 2019, 99, 042210.	2.1	9
46	Improved earthquake aftershocks forecasting model based on long-term memory. <i>New Journal of Physics</i> , 2021, 23, 042001.	2.9	9
47	Network Synchronization Analysis Reveals the Weakening Tropical Circulations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093582.	4.0	8
48	Percolation framework of the Earth's topography. <i>Physical Review E</i> , 2019, 99, 022304.	2.1	7
49	Evolution mechanism of principal modes in climate dynamics. <i>New Journal of Physics</i> , 2020, 22, 093077.	2.9	6
50	Network approach reveals the spatiotemporal influence of traffic on air pollution under COVID-19. <i>Chaos</i> , 2022, 32, 041106.	2.5	6
51	Climate network approach reveals the modes of CO2 concentration to surface air temperature. <i>Chaos</i> , 2021, 31, 031104.	2.5	5
52	Topology of products similarity network for market forecasting. <i>Applied Network Science</i> , 2019, 4, .	1.5	4
53	Eigen microstates and their evolution of global ozone at different geopotential heights. <i>Chaos</i> , 2021, 31, 071102.	2.5	4
54	Asymmetry in Earthquake Interevent Time Intervals. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022454.	3.4	3

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55	Percolation II. , 1996, , 115-176.		3
56	Percolation analysis of the atmospheric structure. Physical Review E, 2021, 104, 064139.	2.1	1