# Jingfang Fan

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 56<br>papers | 13,992<br>citations | 147801<br>31<br>h-index | 149698<br>56<br>g-index |
| 59<br>all docs | 59<br>docs citations | 59<br>times ranked | 8136<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Social physics. Physics Reports, 2022, 948, 1-148. | 25.6 | 231 |
| 2 | Network approach reveals the spatiotemporal influence of traffic on air pollution under COVID-19. Chaos, 2022, 32, 041106. | 2.5 | 6 |
| 3 | Statistical physics approaches to the complex Earth system. Physics Reports, 2021, 896, 1-84. | 25.6 | 79 |
| 4 | Climate network approach reveals the modes of CO2 concentration to surface air temperature. Chaos, 2021, 31, 031104. | 2.5 | 5 |
| 5 | Improved earthquake aftershocks forecasting model based on long-term memory. New Journal of Physics, 2021, 23, 042001. | 2.9 | 9 |
| 6 | Eigen microstates and their evolutions in complex systems. Communications in Theoretical Physics, 2021, 73, 065603. | 2.5 | 13 |
| 7 | Optimal resilience of modular interacting networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 41 |
| 8 | Networkâ€Synchronization Analysis Reveals the Weakening Tropical Circulations. Geophysical Research Letters, 2021, 48, e2021GL093582. | 4.0 | 8 |
| 9 | Eigen microstates and their evolution of global ozone at different geopotential heights. Chaos, 2021, 31, 071102. | 2.5 | 4 |
| 10 | Asymmetry in Earthquake Interevent Time Intervals. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022454. | 3.4 | 3 |
| 11 | Network-based forecasting of climate phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 24 |
| 12 | Percolation analysis of the atmospheric structure. Physical Review E, 2021, 104, 064139. | 2.1 | 1 |
| 13 | Complexity-based approach for El NiÃ±o magnitude forecasting before the spring predictability barrier. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 177-183. | 7.1 | 37 |
| 14 | Epidemic spreading and control strategies in spatial modular network. Applied Network Science, 2020, 5, 95. | 1.5 | 13 |
| 15 | Epidemic spreading on modular networks: The fear to declare a pandemic. Physical Review E, 2020, 101, 032309. | 2.1 | 27 |
| 16 | Universal gap scaling in percolation. Nature Physics, 2020, 16, 455-461. | 16.7 | 25 |
| 17 | Evolution mechanism of principal modes in climate dynamics. New Journal of Physics, 2020, 22, 093077. | 2.9 | 6 |
| 18 | Scaling laws in earthquake memory for interevent times and distances. Physical Review Research, 2020, 2, . | 3.6 | 10 |

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|---|---|---|---|
| 19 | Topology of products similarity network for market forecasting. Applied Network Science, 2019, 4, . | 1.5 | 4 |
| 20 | Significant Impact of Rossby Waves on Air Pollution Detected by Network Analysis. Geophysical Research Letters, 2019, 46, 12476-12485. | 4.0 | 28 |
| 21 | Percolation framework of the Earth's topography. Physical Review E, 2019, 99, 022304. | 2.1 | 7 |
| 22 | Possible origin of memory in earthquakes: Real catalogs and an epidemic-type aftershock sequence model. Physical Review E, 2019, 99, 042210. | 2.1 | 9 |
| 23 | Localized attack on networks with clustering. New Journal of Physics, 2019, 21, 013014. | 2.9 | 10 |
| 24 | 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. | 7.1 | 213 |
| 25 | Climate network percolation reveals the expansion and weakening of the tropical component under global warming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12128-E12134. | 7.1 | 26 |
| 26 | Structural resilience of spatial networks with inter-links behaving as an external field. New Journal of Physics, 2018, 20, 093003. | 2.9 | 15 |
| 27 | Correlation and scaling behaviors of fine particulate matter (PM<sub>2.5</sub>) concentration in China. Europhysics Letters, 2018, 122, 58003. | 2.0 | 14 |
| 28 | Resilience of networks with community structure behaves as if under an external field. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6911-6915. | 7.1 | 82 |
| 29 | Percolation framework to describe El NiÃ±o conditions. Chaos, 2017, 27, 035807. | 2.5 | 48 |
| 30 | Network analysis reveals strongly localized impacts of El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7543-7548. | 7.1 | 76 |
| 31 | Network approaches to climate science. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 9 |
| 32 | Multiple tipping points and optimal repairing in interacting networks. Nature Communications, 2016, 7, 10850. | 12.8 | 79 |
| 33 | Recent advances on failure and recovery in networks of networks. Chaos, Solitons and Fractals, 2016, 90, 28-36. | 5.1 | 84 |
| 34 | Teleconnection Paths via Climate Network Direct Link Detection. Physical Review Letters, 2015, 115, 268501. | 7.8 | 80 |
| 35 | Critical tipping point distinguishing two types of transitions in modular network structures. Physical Review E, 2015, 92, 062805. | 2.1 | 43 |
| 36 | Resilience of networks formed of interdependent modular networks. New Journal of Physics, 2015, 17, 123007. | 2.9 | 51 |

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|---|---|---|---|
| 37 | Recent Progress on the Resilience of Complex Networks. Energies, 2015, 8, 12187-12210. | 3.1 | 82 |
| 38 | Percolation transition in dynamical traffic network with evolving critical bottlenecks. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 669-672. | 7.1 | 349 |
| 39 | General clique percolation in random networks. Europhysics Letters, 2014, 107, 28005. | 2.0 | 14 |
| 40 | Spontaneous recovery in dynamical networks. Nature Physics, 2014, 10, 34-38. | 16.7 | 251 |
| 41 | Very early warning of next El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2064-2066. | 7.1 | 158 |
| 42 | Improved El NiÃ±o forecasting by cooperativity detection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11742-11745. | 7.1 | 136 |
| 43 | Dominant Imprint of Rossby Waves in the Climate Network. Physical Review Letters, 2013, 111, 138501. | 7.8 | 70 |
| 44 | Percolation of partially interdependent scale-free networks. Physical Review E, 2013, 87, 052812. | 2.1 | 103 |
| 45 | Percolation of a general network of networks. Physical Review E, 2013, 88, 062816. | 2.1 | 103 |
| 46 | Robustness of network of networks under targeted attack. Physical Review E, 2013, 87, 052804. | 2.1 | 167 |
| 47 | Continuous percolation phase transitions of random networks under a generalized Achlioptas process. Physical Review E, 2012, 85, 061110. | 2.1 | 36 |
| 48 | Networks formed from interdependent networks. Nature Physics, 2012, 8, 40-48. | 16.7 | 961 |
| 49 | Robustness of a Network of Networks. Physical Review Letters, 2011, 107, 195701. | 7.8 | 509 |
| 50 | Catastrophic cascade of failures in interdependent networks. Nature, 2010, 464, 1025-1028. | 27.8 | 3,326 |
| 51 | Identification of influential spreaders in complex networks. Nature Physics, 2010, 6, 888-893. | 16.7 | 2,386 |
| 52 | Memory in the Occurrence of Earthquakes. Physical Review Letters, 2005, 95, 208501. | 7.8 | 130 |
| 53 | Efficient Immunization Strategies for Computer Networks and Populations. Physical Review Letters, 2003, 91, 247901. | 7.8 | 881 |
| 54 | Resilience of the Internet to Random Breakdowns. Physical Review Letters, 2000, 85, 4626-4628. | 7.8 | 1,911 |

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|---|---|---|---|
| 55 | Percolation II. , 1996, , 115-176. | | 3 |
| 56 | Modelling urban growth patterns. Nature, 1995, 377, 608-612. | 27.8 | 392 |