Shlomo Havlin

List of Publications by Year
in descending order

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223 papers	40,176 citations	7568 77 h-index	2571 195 g-index
228 all docs	228 docs citations	228 times ranked	19496 citing authors

#	Article	IF	Citations
1	Catastrophic cascade of failures in interdependent networks. Nature, 2010, 464, 1025-1028.	27.8	3,326
2	Quantification of scaling exponents and crossover phenomena in nonstationary heartbeat time series. Chaos, 1995, 5, 82-87.	2.5	3,180
3	Identification of influential spreaders in complex networks. Nature Physics, 2010, 6, 888-893.	16.7	2,386
4	Resilience of the Internet to Random Breakdowns. Physical Review Letters, 2000, 85, 4626-4628.	7.8	1,911
5	Diffusion in disordered media. Advances in Physics, 1987, 36, 695-798.	14.4	1,730
6	Multifractality in human heartbeat dynamics. Nature, 1999, 399, 461-465.	27.8	1,474
7	Optimizing the success of random searches. Nature, 1999, 401, 911-914.	27.8	1,370
8	Breakdown of the Internet under Intentional Attack. Physical Review Letters, 2001, 86, 3682-3685.	7.8	1,186
9	Detecting long-range correlations with detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 441-454.	2.6	1,164
10	Networks formed from interdependent networks. Nature Physics, 2012, 8, 40-48.	16.7	961
11	Efficient Immunization Strategies for Computer Networks and Populations. Physical Review Letters, 2003, 91, 247901.	7.8	881
12	Mitigation of malicious attacks on networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3838-3841.	7.1	752
13	Scaling behaviour in the growth of companies. Nature, 1996, 379, 804-806.	27.8	637
14	Interdependent Networks: Reducing the Coupling Strength Leads to a Change from a First to Second Order Percolation Transition. Physical Review Letters, 2010, 105, 048701.	7.8	632
15	A model of Internet topology using k-shell decomposition. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11150-11154.	7.1	612
16	Indication of a Universal Persistence Law Governing Atmospheric Variability. Physical Review Letters, 1998, 81, 729-732.	7.8	599
17	Scale-Free Networks Are Ultrasmall. Physical Review Letters, 2003, 90, 058701.	7.8	589
18	Network physiology reveals relations between network topology and physiological function. Nature Communications, 2012, 3, 702.	12.8	548

#	Article	IF	Citations
19	Origins of fractality in the growth of complex networks. Nature Physics, 2006, 2, 275-281.	16.7	512
20	Robustness of a Network of Networks. Physical Review Letters, 2011, 107, 195701.	7.8	509
21	Correlated and Uncorrelated Regions in Heart-Rate Fluctuations during Sleep. Physical Review Letters, 2000, 85, 3736-3739.	7.8	495
22	Scaling behaviour of heartbeat intervals obtained by wavelet-based time-series analysis. Nature, 1996, 383, 323-327.	27.8	477
23	Robustness of interdependent networks under targeted attack. Physical Review E, 2011, 83, 065101.	2.1	408
24	Modelling urban growth patterns. Nature, 1995, 377, 608-612.	27.8	392
25	Magnitude and Sign Correlations in Heartbeat Fluctuations. Physical Review Letters, 2001, 86, 1900-1903.	7.8	361
26	Method for generating long-range correlations for large systems. Physical Review E, 1996, 53, 5445-5449.	2.1	355
27	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
28	Spontaneous stratification in granular mixtures. Nature, 1997, 386, 379-382.	27.8	335
29	Cascade of failures in coupled network systems with multiple support-dependence relations. Physical Review E, 2011, 83, 036116.	2.1	315
30	Long-term persistence and multifractality of precipitation and river runoff records. Journal of Geophysical Research, 2006, 111, .	3.3	311
31	Long-term persistence and multifractality of river runoff records: Detrended fluctuation studies. Journal of Hydrology, 2006, 322, 120-137.	5.4	265
32	The extreme vulnerability of interdependent spatially embedded networks. Nature Physics, 2013, 9, 667-672.	16.7	253
33	Spontaneous recovery in dynamical networks. Nature Physics, 2014, 10, 34-38.	16.7	251
34	Stability and Topology of Scale-Free Networks under Attack and Defense Strategies. Physical Review Letters, 2005, 94, 188701.	7.8	248
35	Critical effect of dependency groups on the function of networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1007-1010.	7.1	247
36	Finding a Better Immunization Strategy. Physical Review Letters, 2008, 101, 058701.	7.8	237

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37	Power Law Scaling for a System of Interacting Units with Complex Internal Structure. Physical Review Letters, 1998, 80, 1385-1388.	7.8	231
38	Scaling and memory in volatility return intervals in financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9424-9428.	7.1	229
39	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
40	Cascading Failures in Interdependent Lattice Networks: The Critical Role of the Length of Dependency Links. Physical Review Letters, 2012, 108, 228702.	7.8	211
41	Modeling urban growth patterns with correlated percolation. Physical Review E, 1998, 58, 7054-7062.	2.1	205
42	Dimension of spatially embedded networks. Nature Physics, 2011, 7, 481-484.	16.7	205
43	Epidemic Threshold for the Susceptible-Infectious-Susceptible Model on Random Networks. Physical Review Letters, 2010, 104, 258701.	7.8	170
44	Robustness of network of networks under targeted attack. Physical Review E, 2013, 87, 052804.	2.1	167
45	Optimal Paths in Disordered Complex Networks. Physical Review Letters, 2003, 91, 168701.	7.8	160
46	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
47	Cascading Failures in Bi-partite Graphs: Model for Systemic Risk Propagation. Scientific Reports, 2013, 3, 1219.	3.3	155
48	Nonlinearity and multifractality of climate change in the past 420,000 years. Geophysical Research Letters, 2003, 30, .	4.0	141
49	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
50	Percolation of localized attack on complex networks. New Journal of Physics, 2015, 17, 023049.	2.9	135
51	From a single network to a network of networks. National Science Review, 2014, 1, 346-356.	9.5	129
52	Percolation in interdependent and interconnected networks: Abrupt change from second- to first-order transitions. Physical Review E, 2011, 84, 066116.	2.1	128
53	Flexibility of thought in high creative individuals represented by percolation analysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 867-872.	7.1	125
54	Localized attacks on spatially embedded networks with dependencies. Scientific Reports, 2015, 5, 8934.	3.3	124

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55	Partial correlation analysis: applications for financial markets. Quantitative Finance, 2015, 15, 569-578.	1.7	123
56	Territory covered by N diffusing particles. Nature, 1992, 355, 423-426.	27.8	119
57	Long-term persistence in climate and the detection problem. Geophysical Research Letters, 2006, 33, .	4.0	119
58	Analysis of daily temperature fluctuations. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 393-396.	2.6	118
59	Structure of shells in complex networks. Physical Review E, 2009, 80, 036105.	2.1	112
60	Some properties of the a+b ? C reaction-diffusion system with initially separated components. Journal of Statistical Physics, 1991, 65, 873-891.	1.2	110
61	Percolation in networks composed of connectivity and dependency links. Physical Review E, 2011, 83, 051127.	2.1	104
62	Percolation of partially interdependent scale-free networks. Physical Review E, 2013, 87, 052812.	2.1	103
63	Percolation of a general network of networks. Physical Review E, 2013, 88, 062816.	2.1	103
64	Spatial correlation analysis of cascading failures: Congestions and Blackouts. Scientific Reports, 2014, 4, 5381.	3.3	102
65	Percolation of interdependent networks with intersimilarity. Physical Review E, 2013, 88, 052805.	2.1	101
66	Switch between critical percolation modes in city traffic dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23-28.	7.1	100
67	The effect of long-term correlations on the return periods of rare events. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 1-7.	2.6	99
68	Network geometry. Nature Reviews Physics, 2021, 3, 114-135.	26.6	93
69	Traveling time and traveling length in critical percolation clusters. Physical Review E, 1999, 60, 3425-3428.	2.1	92
70	Scale-free resilience of real traffic jams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8673-8678.	7.1	92
71	A comparative analysis of approaches to network-dismantling. Scientific Reports, 2018, 8, 13513.	3.3	90
72	Simultaneous first- and second-order percolation transitions in interdependent networks. Physical Review E, 2014, 90, 012803.	2.1	89

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73	Spatio-temporal propagation of cascading overload failures in spatially embedded networks. Nature Communications, 2016, 7, 10094.	12.8	89
74	Dynamic interdependence and competition in multilayer networks. Nature Physics, 2019, 15, 178-185.	16.7	86
75	Recent advances on failure and recovery in networks of networks. Chaos, Solitons and Fractals, 2016, 90, 28-36.	5.1	84
76	Recent Progress on the Resilience of Complex Networks. Energies, 2015, 8, 12187-12210.	3.1	82
77	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
78	Teleconnection Paths via Climate Network Direct Link Detection. Physical Review Letters, 2015, 115, 268501.	7.8	80
79	Scaling in nature: from DNA through heartbeats to weather. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 46-69.	2.6	79
80	Multiple tipping points and optimal repairing in interacting networks. Nature Communications, 2016, 7, 10850.	12.8	79
81	Statistical physics approaches to the complex Earth system. Physics Reports, 2021, 896, 1-84.	25.6	79
82	Competing for Attention in Social Media under Information Overload Conditions. PLoS ONE, 2015, 10, e0126090.	2.5	78
83	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
84	Increasing trend of scientists to switch between topics. Nature Communications, 2019, 10, 3439.	12.8	75
85	Robustness of a partially interdependent network formed of clustered networks. Physical Review E, 2014, 89, 032812.	2.1	71
86	Return intervals of rare events in records with long-term persistence. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 308-314.	2.6	70
87	Dominant Imprint of Rossby Waves in the Climate Network. Physical Review Letters, 2013, 111, 138501.	7.8	70
88	How does public opinion become extreme?. Scientific Reports, 2015, 5, 10032.	3.3	70
89	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.	7.1	68
90	Structural properties of scale-free networks. , 2004, , 85-110.		67

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91	OPTIMAL PATH AND MINIMAL SPANNING TREES IN RANDOM WEIGHTED NETWORKS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2215-2255.	1.7	65
92	Percolation of interdependent network of networks. Chaos, Solitons and Fractals, 2015, 72, 4-19.	5.1	65
93	Local structure can identify and quantify influential global spreaders in large scale social networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7468-7472.	7.1	64
94	How breadth of degree distribution influences network robustness: Comparing localized and random attacks. Physical Review E, 2015, 92, 032122.	2.1	62
95	Breathing during REM and non-REM sleep: correlated versus uncorrelated behaviour. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 447-457.	2.6	58
96	Long-range power-law correlations in local daily temperature fluctuations. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1331-1340.	0.6	56
97	Spatio-temporal propagation of COVID-19 pandemics. Europhysics Letters, 2020, 131, 58003.	2.0	56
98	Photon Migration in a Two-layer Turbid Medium a Diffusion Analysis. Journal of Modern Optics, 1992, 39, 1567-1582.	1.3	54
99	Scaling of the Distribution of Shortest Paths in Percolation. Journal of Statistical Physics, 1998, 93, 603-613.	1.2	52
100	Resilience of networks formed of interdependent modular networks. New Journal of Physics, 2015, 17, 123007.	2.9	51
101	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-core percolation on complex networks: Comparing random, localized, and targeted attacks. Physical Review E, 2016, 93, 062302.	2.1	51
102	Fractal boundaries of complex networks. Europhysics Letters, 2008, 84, 48004.	2.0	50
103	Controlling nanostructures. Nature, 1994, 368, 22-22.	27.8	49
104	Percolation framework to describe El NiÃ±o conditions. Chaos, 2017, 27, 035807.	2.5	48
105	Robustness of a network formed of spatially embedded networks. Physical Review E, 2014, 90, 012809.	2.1	47
106	Non-consensus Opinion Models on Complex Networks. Journal of Statistical Physics, 2013, 151, 92-112.	1.2	46
107	Network science: a useful tool in economics and finance. Mind and Society, 2015, 14, 155-167.	1.3	46
108	Explosive synchronization coexists with classical synchronization in the Kuramoto model. Chaos, 2016, 26, 065307.	2.5	45

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109	Distribution of Base Pair Repeats in Coding and Noncoding DNA Sequences. Physical Review Letters, 1997, 79, 5182-5185.	7.8	44
110	Optimal paths in disordered media: Scaling of the crossover from self-similar to self-affine behavior. Physical Review E, 1999, 60, R2448-R2451.	2.1	44
111	Spreading of localized attacks in spatial multiplex networks. New Journal of Physics, 2017, 19, 073037.	2.9	44
112	Influence of autocorrelation on the topology of the climate network. Physical Review E, 2014, 90, 062814.	2.1	43
113	Critical tipping point distinguishing two types of transitions in modular network structures. Physical Review E, 2015, 92, 062805.	2.1	43
114	Fresh teams are associated with original and multidisciplinary research. Nature Human Behaviour, 2021, 5, 1314-1322.	12.0	43
115	Quasicrystals in a monodisperse system. Physical Review E, 1999, 60, 2664-2669.	2.1	42
116	Percolation of spatially constraint networks. Europhysics Letters, 2011, 93, 68004.	2.0	41
117	Testing reanalysis data sets in Antarctica: Trends, persistence properties, and trend significance. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,839.	3.3	41
118	Optimal resilience of modular interacting networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
119	The effect of spatiality on multiplex networks. Europhysics Letters, 2016, 115, 36002.	2.0	39
120	Conditions for Viral Influence Spreading through Multiplex Correlated Social Networks. Physical Review X, 2014, 4, .	8.9	38
121	CAN STATISTICAL PHYSICS CONTRIBUTE TO THE SCIENCE OF ECONOMICS?. Fractals, 1996, 04, 415-425.	3.7	37
122	Optimal path in two and three dimensions. Physical Review E, 1998, 58, 7642-7644.	2.1	37
123	Multifractal behavior of linear polymers in disordered media. Physical Review E, 2000, 61, 6858-6865.	2.1	36
124	Universality classes for self-avoiding walks in a strongly disordered system. Physical Review E, 2002, 65, 056128.	2.1	36
125	Multiple metastable network states in urban traffic. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17528-17534.	7.1	36
126	Localization in self-affine energy landscapes. Physical Review B, 2001, 64, .	3.2	34

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127	The Combined Effect of Connectivity and Dependency Links on Percolation of Networks. Journal of Statistical Physics, 2011, 145, 686-695.	1.2	34
128	Percolation and cascade dynamics of spatial networks with partial dependency. Journal of Complex Networks, 2014, 2, 460-474.	1.8	34
129	Neuronal noise as an origin of sleep arousals and its role in sudden infant death syndrome. Science Advances, 2018, 4, eaar6277.	10.3	34
130	How People Interact in Evolving Online Affiliation Networks. Physical Review X, 2012, 2, .	8.9	33
131	Forecasting the magnitude and onset of El NiÃ±o based on climate network. New Journal of Physics, 2018, 20, 043036.	2.9	32
132	Are Branched Polymers in the Universality Class of Percolation?. Physical Review Letters, 1995, 74, 2714-2716.	7.8	31
133	Scaling of horizontal and vertical fixational eye movements. Physical Review E, 2005, 71, 031909.	2.1	31
134	Predictability of real temporal networks. National Science Review, 2020, 7, 929-937.	9.5	31
135	Complex networks embedded in space: Dimension and scaling relations between mass, topological distance, and Euclidean distance. Physical Review E, 2013, 87, .	2.1	30
136	Significant Impact of Rossby Waves on Air Pollution Detected by Network Analysis. Geophysical Research Letters, 2019, 46, 12476-12485.	4.0	28
137	Mitigation of cascading failures in complex networks. Scientific Reports, 2020, 10, 16124.	3.3	27
138	Epidemic spreading on modular networks: The fear to declare a pandemic. Physical Review E, 2020, 101, 032309.	2.1	27
139	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
140	Efficient network immunization under limited knowledge. National Science Review, 2021, 8, nwaa229.	9.5	26
141	Cascading failures in complex networks. Journal of Complex Networks, 2020, 8, .	1.8	26
142	Structural properties of invasion percolation with and without trapping: Shortest path and distributions. Physical Review E, 1999, 59, 3262-3269.	2.1	25
143	Vulnerability of Interdependent Networks and Networks of Networks. Understanding Complex Systems, 2016, , 79-99.	0.6	25
144	Reviving a failed network through microscopic interventions. Nature Physics, 2022, 18, 338-349.	16.7	25

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145	Oceanic El-NiÃ±o wave dynamics and climate networks. New Journal of Physics, 2016, 18, 033021.	2.9	24
146	Connectivity of EEG synchronization networks increases for Parkinsonâ€™s disease patients with freezing of gait. Communications Biology, 2021, 4, 1017.	4.4	24
147	Network-based forecasting of climate phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
148	Probability distribution of the shortest path on the percolation cluster, its backbone, and skeleton. Physical Review E, 1998, 58, R5205-R5208.	2.1	23
149	Structural and functional properties of spatially embedded scale-free networks. Physical Review E, 2014, 89, 062806.	2.1	22
150	Community Analysis of Global Financial Markets. Risks, 2016, 4, 13.	2.4	22
151	Use of comb-like models to mimic anomalous diffusion on fractal structures. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 941-947.	0.6	21
152	Identifying the most influential roads based on traffic correlation networks. EPJ Data Science, 2019, 8, .	2.8	21
153	Optimal path in random networks with disorder: A mini review. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 82-92.	2.6	20
154	Effects of bias on the kinetics ofA+Bâ†’Cwith initially separated reactants. Physical Review E, 1996, 54, 5942-5947.	2.1	19
155	Directed Polymers at Finite Temperatures in 1+1 and 2+1 Dimensionsâ€. Journal of Physical Chemistry B, 2000, 104, 3875-3880.	2.6	19
156	No indications of metal-insulator transition for systems of interacting electrons in two dimensions. Physical Review B, 2001, 63, .	3.2	18
157	Percolation of hierarchical networks and networks of networks. Physical Review E, 2018, 98, .	2.1	18
158	Realistic modelling of information spread using peer-to-peer diffusion patterns. Nature Human Behaviour, 2020, 4, 1198-1207.	12.0	18
159	Unveiling the nature of interaction between semantics and phonology in lexical access based on multilayer networks. Scientific Reports, 2021, 11, 14479.	3.3	18
160	Spatial correlations in geographical spreading of COVID-19 in the United States. Scientific Reports, 2022, 12, 699.	3.3	18
161	Nontrivial resource requirement in the early stage for containment of epidemics. Physical Review E, 2019, 100, 032310.	2.1	17
162	Interdependent resistor networks with process-based dependency. New Journal of Physics, 2015, 17, 043046.	2.9	16

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163	Generalized model for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math> -core percolation and interdependent networks. Physical Review E, 2017, 96, 032317.	2.1	16
164	Integrating networks and comparative genomics reveals retroelement proliferation dynamics in hominid genomes. Science Advances, 2017, 3, e1701256.	10.3	16
165	Interconnections between networks acting like an external field in a first-order percolation transition. Physical Review E, 2020, 101, 022316.	2.1	16
166	Phone Infections. Science, 2009, 324, 1023-1024.	12.6	15
167	Identifying long-term periodic cycles and memories of collective emotion in online social media. PLoS ONE, 2019, 14, e0213843.	2.5	15
168	Anderson localization in a correlated landscape near the band edge. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1449-1453.	0.6	14
169	Dependence of conductance on percolation backbone mass. Physical Review E, 2000, 61, 3435-3440.	2.1	14
170	â€œGeneralized des Cloizeauxâ€•exponent for self-avoiding walks on the incipient percolation cluster. Physical Review E, 2001, 63, 020104.	2.1	14
171	Nonconsensus opinion model on directed networks. Physical Review E, 2014, 90, 052811.	2.1	14
172	Epidemic spreading and control strategies in spatial modular network. Applied Network Science, 2020, 5, 95.	1.5	13
173	Critical Stretching of Mean-Field Regimes in Spatial Networks. Physical Review Letters, 2019, 123, 088301.	7.8	12
174	Effects of mobility restrictions during COVID19 in Italy. Scientific Reports, 2021, 11, 21783.	3.3	12
175	Anomalous Transport on Random Fractal Structures: Stretched Gaussians, Powerâ€Laws and Logarithmic Time Dependences. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 1205-1208.	0.9	11
176	A FRACTAL MODEL FOR THE FIRST STAGES OF THIN FILM GROWTH. Fractals, 1996, 04, 321-329.	3.7	11
177	Robustness of spatial networks and networks of networks. Comptes Rendus Physique, 2018, 19, 233-243.	0.9	11
178	Temporal correlations in a one-dimensional sandpile model. Physical Review E, 1996, 54, 6109-6113.	2.1	10
179	Optimal cost for strengthening or destroying a given network. Physical Review E, 2017, 95, 052305.	2.1	10
180	Localized attack on networks with clustering. New Journal of Physics, 2019, 21, 013014.	2.9	10

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181	Concurrence Percolation in Quantum Networks. Physical Review Letters, 2021, 126, 170501.	7.8	10
182	Scaling laws in earthquake memory for interevent times and distances. Physical Review Research, 2020, 2, .	3.6	10
183	Stretched-exponential relaxation: The role of system size. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1323-1329.	0.6	9
184	Clustering of Identical Oligomers in Coding and Noncoding DNA Sequences. Journal of Biomolecular Structure and Dynamics, 1999, 17, 79-87.	3.5	9
185	Interdependent Spatially Embedded Networks: Dynamics at Percolation Threshold. , 2013, , .		9
186	Network approaches to climate science. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	9
187	Possible origin of memory in earthquakes: Real catalogs and an epidemic-type aftershock sequence model. Physical Review E, 2019, 99, 042210.	2.1	9
188	Entropy fluctuations for directed polymers in2+1dimensions. Physical Review E, 2001, 63, 032601.	2.1	8
189	Interdependent networks in Economics and Financeâ€"A Physics approach. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 612-619.	2.6	8
190	Two transitions in spatial modular networks. New Journal of Physics, 2020, 22, 053002.	2.9	8
191	Long-Range Correlations and Memory in the Dynamics of Internet Interdomain Routing. PLoS ONE, 2015, 10, e0141481.	2.5	8
192	Spreading of localized attacks on spatial multiplex networks with a community structure. Physical Review Research, 2020, 2, .	3.6	8
193	Universal scaling laws of collective human flow patterns in urban regions. Scientific Reports, 2020, 10, 21405.	3.3	7
194	Ranking the economic importance of countries and industries. Journal of Network Theory in Finance, 2017, , .	0.7	7
195	Cascading failures in anisotropic interdependent networks of spatial modular structures. New Journal of Physics, 2021, 23, 113001.	2.9	7
196	Structure of self-avoiding walks on percolation clusters at criticality. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1357-1371.	0.6	6
197	SCALING IN THE ATMOSPHERE: ON GLOBAL LAWS OF PERSISTENCE AND TESTS OF CLIMATE MODELS. Fractals, 2003, 11, 205-216.	3.7	6
198	Multi-Universality and Localized Attacks in Spatially Embedded Networks. , 2017, , .		6

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199	Propinquity drives the emergence of network structure and density. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20360-20365.	7.1	6
200	Universal scaling of human flow remain unchanged during the COVID-19 pandemic. Applied Network Science, 2021, 6, 75.	1.5	6
201	Robustness of interdependent networks based on bond percolation. Europhysics Letters, 2020, 130, 38003.	2.0	5
202	Interdependent transport via percolation backbones in spatial networks. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125644.	2.6	5
203	Cascading failures in isotropic and anisotropic spatial networks induced by localized attacks and overloads. New Journal of Physics, 2022, 24, 043045.	2.9	5
204	Biased diffusion on random structures. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 821-831.	0.6	4
205	Spontaneous repulsion in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>+</mml:mo><mml:mi>B</mml:mi> reaction on coupled networks. Physical Review E, 2018, 97, 040301.	2.1	4
206	Experimental studies of stratification in a granular Heleâ€”Shaw cell. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1341-1351.	0.6	3
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