Hawoong Jeong

List of Publications by Year
in descending order

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101	29,987	81839	36008
papers	citations	39 h-index	97 g-index

106	106	106	19650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Error and attack tolerance of complex networks. Nature, 2000, 406, 378-382.	13.7	7,006
2	Lethality and centrality in protein networks. Nature, 2001, 411, 41-42.	13.7	4,579
3	The large-scale organization of metabolic networks. Nature, 2000, 407, 651-654.	13.7	4,262
4	Diameter of the World-Wide Web. Nature, 1999, 401, 130-131.	13.7	3,527
5	Evolution of the social network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 590-614.	1.2	1,999
6	Mean-field theory for scale-free random networks. Physica A: Statistical Mechanics and Its Applications, 1999, 272, 173-187.	1.2	1,861
7	Scale-free characteristics of random networks: the topology of the world-wide web. Physica A: Statistical Mechanics and Its Applications, 2000, 281, 69-77.	1.2	1,062
8	Analysis of topological characteristics of huge online social networking services. , 2007, , .		596
9	Modeling the Internet's large-scale topology. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13382-13386.	3.3	520
10	Measuring preferential attachment in evolving networks. Europhysics Letters, 2003, 61, 567-572.	0.7	403
11	Weighted Evolving Networks. Physical Review Letters, 2001, 86, 5835-5838.	2.9	384
12	Classification of scale-free networks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12583-12588.	3.3	320
13	Subnetwork hierarchies of biochemical pathways. Bioinformatics, 2003, 19, 532-538.	1.8	294
14	Statistical properties of sampled networks. Physical Review E, 2006, 73, 016102.	0.8	276
15	Price of Anarchy in Transportation Networks: Efficiency and Optimality Control. Physical Review Letters, 2008, 101, 128701.	2.9	216
16	Dynamics of Ripple Formation in Sputter Erosion: Nonlinear Phenomena. Physical Review Letters, 1999, 83, 3486-3489.	2.9	184
17	Path finding strategies in scale-free networks. Physical Review E, 2002, 65, 027103.	0.8	151
18	Systematic analysis of group identification in stock markets. Physical Review E, 2005, 72, 046133.	0.8	127

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19	Finding communities in directed networks. Physical Review E, 2010, 81, 016103.	0.8	123
20	Metabolite essentiality elucidates robustness of Escherichia coli metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13638-13642.	3.3	122
21	Scale-free trees: The skeletons of complex networks. Physical Review E, 2004, 70, 046126.	0.8	94
22	A protein interaction network associated with asthma. Journal of Theoretical Biology, 2008, 252, 722-731.	0.8	94
23	Role of the cytoskeleton in signaling networks. Journal of Cell Science, 2004, 117, 2769-2775.	1.2	75
24	Prediction of Protein Essentiality Based on Genomic Data. Complexus, 2003, 1, 19-28.	0.7	70
25	Scaling laws between population and facility densities. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14236-14240.	3.3	69
26	Ring polymers as model bacterial chromosomes: confinement, chain topology, single chain statistics, and how they interact. Soft Matter, 2012, 8, 2095-2102.	1.2	68
27	Topological properties of stock networks based on minimal spanning tree and random matrix theory in financial time series. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 900-906.	1.2	65
28	Spontaneous Lamellar Alignment in Thicknessâ€Modulated Block Copolymer Films. Advanced Functional Materials, 2009, 19, 2584-2591.	7.8	63
29	Map equation for link communities. Physical Review E, 2011, 84, 026110.	0.8	63
30	Universality Class of the Fiber Bundle Model on Complex Networks. Physical Review Letters, 2005, 94, 025501.	2.9	61
31	Watching helical membrane proteins fold reveals a common N-to-C-terminal folding pathway. Science, 2019, 366, 1150-1156.	6.0	59
32	Parasitic computing. Nature, 2001, 412, 894-897.	13.7	56
33	Wiring cost in the organization of a biological neuronal network. Physica A: Statistical Mechanics and Its Applications, 2006, 367, 531-537.	1.2	55
34	A polymer in a crowded and confined space: effects of crowder size and poly-dispersity. Soft Matter, 2015, 11, 1877-1888.	1.2	53
35	Mining communities in networks. , 2009, , .		51
36	Large-Scale Quantitative Analysis of Painting Arts. Scientific Reports, 2014, 4, 7370.	1.6	49

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37	Pattern formation in a two-dimensional array of oscillators with phase-shifted coupling. Physical Review E, 2004, 70, 065201.	0.8	47
38	Googling Social Interactions: Web Search Engine Based Social Network Construction. PLoS ONE, 2010, 5, e11233.	1.1	47
39	Epidemic dynamics of two species of interacting particles on scale-free networks. Physical Review E, 2006, 74, 066113.	0.8	43
40	Dynamics and Directionality in Complex Networks. Physical Review Letters, 2009, 103, 228702.	2.9	43
41	Technological novelty profile and inventionâ€™s future impact. EPJ Data Science, 2016, 5, .	1.5	36
42	Complex scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 226-237.	1.2	35
43	Exploring local structural organization of metabolic networks using subgraph patterns. Journal of Theoretical Biology, 2006, 241, 823-829.	0.8	35
44	Growing network model for community with group structure. Physical Review E, 2005, 71, 036131.	0.8	34
45	Generalized epidemic process on modular networks. Physical Review E, 2014, 89, 052811.	0.8	34
46	Critical behavior of the Ising model in annealed scale-free networks. Physical Review E, 2009, 80, 051127.	0.8	33
47	Centralized Modularity of N-Linked Glycosylation Pathways in Mammalian Cells. PLoS ONE, 2009, 4, e7317.	1.1	29
48	Learning Entropy Production via Neural Networks. Physical Review Letters, 2020, 125, 140604.	2.9	24
49	Finite-time quantum Otto engine: Surpassing the quasistatic efficiency due to friction. Physical Review E, 2020, 101, 022127.	0.8	23
50	Elasticity of flexible polymers under cylindrical confinement: appreciating the blob scaling regime in computer simulations. Soft Matter, 2013, 9, 6142.	1.2	22
51	Spatio-temporal dynamics in the origin of genetic information. Physica D: Nonlinear Phenomena, 2005, 203, 88-99.	1.3	21
52	Scaling properties in time-varying networks with memory. European Physical Journal B, 2015, 88, 1.	0.6	18
53	Global organization of protein complexome in the yeast Saccharomyces cerevisiae. BMC Systems Biology, 2011, 5, 126.	3.0	16
54	Dissecting landscape art history with information theory. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26580-26590.	3.3	16

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55	Quantumness and thermodynamic uncertainty relation of the finite-time Otto cycle. Physical Review E, 2021, 103, 022136.	0.8	14
56	Inertial effects on the Brownian gyrator. Physical Review E, 2021, 103, 032148.	0.8	14
57	Unraveling hidden interactions in complex systems with deep learning. Scientific Reports, 2021, 11, 12804.	1.6	14
58	Korean Family Name Distribution in the Past. Journal of the Korean Physical Society, 2007, 51, 1812-1816.	0.3	14
59	Dynamic topologies of activity-driven temporal networks with memory. Physical Review E, 2018, 97, 062148.	0.8	13
60	Discovering invariants via machine learning. Physical Review Research, 2021, 3, .	1.3	13
61	Relaxation of synchronization on complex networks. Physical Review E, 2008, 78, 016106.	0.8	12
62	Effects of junctional correlations in the totally asymmetric simple exclusion process on random regular networks. Physical Review E, 2014, 90, 062111.	0.8	12
63	Universality classes of the generalized epidemic process on random networks. Physical Review E, 2016, 93, 052304.	0.8	12
64	Explosive synchronization in multilayer dynamically dissimilar networks. Journal of Computational Science, 2020, 46, 101177.	1.5	12
65	Encoding Multiple Virtual Signals in DNA Barcodes with Single-Molecule FRET. Nano Letters, 2021, 21, 1694-1701.	4.5	12
66	Impact of sequential disorder on the scaling behavior of airplane boarding time. Physical Review E, 2013, 87, 052803.	0.8	11
67	Intellectual interchanges in the history of the massive online open-editing encyclopedia, Wikipedia. Physical Review E, 2016, 93, 012307.	0.8	10
68	Random field Ising model on networks with inhomogeneous connections. Physical Review E, 2006, 74, 031118.	0.8	9
69	Early onset of structural inequality in the formation of collaborative knowledge in all Wikimedia projects. Nature Human Behaviour, 2019, 3, 155-163.	6.2	9
70	Consistent Community IdentiÂ¯cation in Complex Networks. Journal of the Korean Physical Society, 2011, 59, 3128-3132.	0.3	9
71	Anomalous scaling behavior in polymer thin film growth by vapor deposition. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02031.	0.9	8
72	Absorbing states of zero-temperature Glauber dynamics in random networks. Physical Review E, 2012, 85, 031123.	0.8	8

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73	Anatomy of Scientific Evolution. PLoS ONE, 2015, 10, e0117388.	1.1	7
74	Heterogeneity in chromatic distance in images and characterization of massive painting data set. PLoS ONE, 2018, 13, e0204430.	1.1	7
75	Market behavior and performance of different strategy evaluation schemes. Physical Review E, 2010, 82, 026109.	0.8	6
76	Chromosome-like organization of an asymmetrical ring polymer confined in a cylindrical space. Soft Matter, 2015, 11, 8179-8193.	1.2	6
77	Effects of substrate network topologies on competition dynamics. Physical Review E, 2006, 74, 026118.	0.8	5
78	Fundamental Structural Constraint of Random Scale-Free Networks. Physical Review Letters, 2012, 109, 118701.	2.9	5
79	Effects of a local defect on one-dimensional nonlinear surface growth. Physical Review E, 2017, 95, 042123.	0.8	5
80	Uncovering hidden dependency in weighted networks via information entropy. Physical Review Research, 2021, 3, .	1.3	5
81	Estimating entropy production with odd-parity state variables via machine learning. Physical Review Research, 2022, 4, .	1.3	5
82	Nanoscale spiral flow in a cylindrical channel. Physical Review E, 2011, 83, 056324.	0.8	3
83	Demographic studies of Internet routers. Journal of the Korean Physical Society, 2012, 60, 585-589.	0.3	3
84	Jamming and condensation in one-dimensional driven flow. Physical Review E, 2018, 97, 032120.	0.8	3
85	Role of hubs in the synergistic spread of behavior. Physical Review E, 2019, 99, 020301.	0.8	3
86	Multi-Label Classification of Historical Documents by Using Hierarchical Attention Networks. Journal of the Korean Physical Society, 2020, 76, 368-377.	0.3	3
87	N-gram Web Service and Stylometric Analysis of Korean Historical Documents. New Physics: Sae Mulli, 2016, 66, 502-510.	0.0	3
88	Complex ion-distribution induced contrast reversal in STM imaging of DNA. Physical Review B, 2006, 73, .	1.1	2
89	Understanding topological mesoscale features in community mining. , 2010, , .		2
90	Deep reinforcement learning for feedback control in a collective flashing ratchet. Physical Review Research, 2021, 3, .	1.3	2

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91	Are better conductors more rigid?. Europhysics Letters, 2006, 76, 325-331.	0.7	1
92	Inhomogeneous substructures hidden in random networks. Physical Review E, 2006, 73, 037102.	0.8	1
93	Emergence of chaotic itinerancy in simple ecological systems. Physical Review E, 2007, 76, 065201.	0.8	1
94	Finite-size scaling in randomK-satisfiability problems. Physical Review E, 2010, 82, 061109.	0.8	1
95	Impact of temporal connectivity patterns on epidemic process. European Physical Journal B, 2019, 92, 1.	0.6	1
96	Impact of environmental changes on the dynamics of temporal networks. PLoS ONE, 2021, 16, e0250612.	1.1	1
97	Analysis of E. coli Network. , 2009, , 113-132.		1
98	On-line (TweetNet) and Off-line (EpiNet): The Distinctive Structures of the Infectious. Studies in Computational Intelligence, 2021, , 187-194.	0.7	1
99	Zero-one-only process: A correlated random walk with a stochastic ratchet. International Journal of Modern Physics B, 2014, 28, 1450201.	1.0	0
100	Phase Transition of Active Rotators in Complex Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 242-246.	0.2	0
101	Inefficiency in Networks with Multiple Sources and Sinks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 334-338.	0.2	0