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	Estimating entropy production with odd-parity state variables via machine learning. Physical Review Research, 2022, 4, .	1.3	5
2	Encoding Multiple Virtual Signals in DNA Barcodes with Single-Molecule FRET. Nano Letters, 2021, 21, 1694-1701.	4.5	12
3	Quantumness and thermodynamic uncertainty relation of the finite-time Otto cycle. Physical Review E, 2021, 103, 022136.	0.8	14
4	Inertial effects on the Brownian gyrator. Physical Review E, 2021, 103, 032148.	0.8	14
5	Impact of environmental changes on the dynamics of temporal networks. PLoS ONE, 2021, 16, e0250612.	1.1	1
6	Deep reinforcement learning for feedback control in a collective flashing ratchet. Physical Review Research, 2021, 3, .	1.3	2
7	Unraveling hidden interactions in complex systems with deep learning. Scientific Reports, 2021, 11, 12804.	1.6	14
8	On-line (TweetNet) and Off-line (EpiNet): The Distinctive Structures of the Infectious. Studies in Computational Intelligence, 2021, , 187-194.	0.7	1
9	Uncovering hidden dependency in weighted networks via information entropy. Physical Review Research, 2021, 3, .	1.3	5
10	Discovering invariants via machine learning. Physical Review Research, 2021, 3, .	1.3	13
11	Learning Entropy Production via Neural Networks. Physical Review Letters, 2020, 125, 140604.	2.9	24
12	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
13	Multi-Label Classification of Historical Documents by Using Hierarchical Attention Networks. Journal of the Korean Physical Society, 2020, 76, 368-377.	0.3	3
14	Explosive synchronization in multilayer dynamically dissimilar networks. Journal of Computational Science, 2020, 46, 101177.	1.5	12
15	Finite-time quantum Otto engine: Surpassing the quasistatic efficiency due to friction. Physical Review E, 2020, 101, 022127.	0.8	23
16	Impact of temporal connectivity patterns on epidemic process. European Physical Journal B, 2019, 92, 1.	0.6	1
17	Role of hubs in the synergistic spread of behavior. Physical Review E, 2019, 99, 020301.	0.8	3
18	Watching helical membrane proteins fold reveals a common N-to-C-terminal folding pathway. Science, 2019, 366, 1150-1156.	6.0	59

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19	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
20	Jamming and condensation in one-dimensional driven flow. Physical Review E, 2018, 97, 032120.	0.8	3
21	Heterogeneity in chromatic distance in images and characterization of massive painting data set. PLoS ONE, 2018, 13, e0204430.	1.1	7
22	Dynamic topologies of activity-driven temporal networks with memory. Physical Review E, 2018, 97, 062148.	0.8	13
23	Effects of a local defect on one-dimensional nonlinear surface growth. Physical Review E, 2017, 95, 042123.	0.8	5
24	Intellectual interchanges in the history of the massive online open-editing encyclopedia, Wikipedia. Physical Review E, 2016, 93, 012307.	0.8	10
25	Universality classes of the generalized epidemic process on random networks. Physical Review E, 2016, 93, 052304.	0.8	12
26	Technological novelty profile and inventionâ€™s future impact. EPJ Data Science, 2016, 5, .	1.5	36
27	N-gram Web Service and Stylometric Analysis of Korean Historical Documents. New Physics: Sae Mulli, 2016, 66, 502-510.	0.0	3
28	Anatomy of Scientific Evolution. PLoS ONE, 2015, 10, e0117388.	1.1	7
29	A polymer in a crowded and confined space: effects of crowder size and poly-dispersity. Soft Matter, 2015, 11, 1877-1888.	1.2	53
30	Chromosome-like organization of an asymmetrical ring polymer confined in a cylindrical space. Soft Matter, 2015, 11, 8179-8193.	1.2	6
31	Scaling properties in time-varying networks with memory. European Physical Journal B, 2015, 88, 1.	0.6	18
32	Effects of junctional correlations in the totally asymmetric simple exclusion process on random regular networks. Physical Review E, 2014, 90, 062111.	0.8	12
33	Zero-one-only process: A correlated random walk with a stochastic ratchet. International Journal of Modern Physics B, 2014, 28, 1450201.	1.0	0
34	Generalized epidemic process on modular networks. Physical Review E, 2014, 89, 052811.	0.8	34
35	Large-Scale Quantitative Analysis of Painting Arts. Scientific Reports, 2014, 4, 7370.	1.6	49
36	Elasticity of flexible polymers under cylindrical confinement: appreciating the blob scaling regime in computer simulations. Soft Matter, 2013, 9, 6142.	1.2	22

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37	Impact of sequential disorder on the scaling behavior of airplane boarding time. Physical Review E, 2013, 87, 052803.	0.8	11
38	Fundamental Structural Constraint of Random Scale-Free Networks. Physical Review Letters, 2012, 109, 118701.	2.9	5
39	Absorbing states of zero-temperature Glauber dynamics in random networks. Physical Review E, 2012, 85, 031123.	0.8	8
40	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
41	Demographic studies of Internet routers. Journal of the Korean Physical Society, 2012, 60, 585-589.	0.3	3
42	Global organization of protein complexome in the yeast Saccharomyces cerevisiae. BMC Systems Biology, 2011, 5, 126.	3.0	16
43	Map equation for link communities. Physical Review E, 2011, 84, 026110.	0.8	63
44	Nanoscale spiral flow in a cylindrical channel. Physical Review E, 2011, 83, 056324.	0.8	3
45	Consistent Community IdentiÂ¯cation in Complex Networks. Journal of the Korean Physical Society, 2011, 59, 3128-3132.	0.3	9
46	Understanding topological mesoscale features in community mining. , 2010, , .		2
47	Finding communities in directed networks. Physical Review E, 2010, 81, 016103.	0.8	123
48	Finite-size scaling in randomK-satisfiability problems. Physical Review E, 2010, 82, 061109.	0.8	1
49	Market behavior and performance of different strategy evaluation schemes. Physical Review E, 2010, 82, 026109.	0.8	6
50	Googling Social Interactions: Web Search Engine Based Social Network Construction. PLoS ONE, 2010, 5, e11233.	1.1	47
51	Critical behavior of the Ising model in annealed scale-free networks. Physical Review E, 2009, 80, 051127.	0.8	33
52	Dynamics and Directionality in Complex Networks. Physical Review Letters, 2009, 103, 228702.	2.9	43
53	Anomalous scaling behavior in polymer thin film growth by vapor deposition. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02031.	0.9	8
54	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

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55	Mining communities in networks. , 2009, , .		51
56	Spontaneous Lamellar Alignment in Thicknessâ€Modulated Block Copolymer Films. Advanced Functional Materials, 2009, 19, 2584-2591.	7.8	63
57	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
58	Analysis of E. coli Network. , 2009, , 113-132.		1
59	Centralized Modularity of N-Linked Glycosylation Pathways in Mammalian Cells. PLoS ONE, 2009, 4, e7317.	1.1	29
60	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
61	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
62	A protein interaction network associated with asthma. Journal of Theoretical Biology, 2008, 252, 722-731.	0.8	94
63	Price of Anarchy in Transportation Networks: Efficiency and Optimality Control. Physical Review Letters, 2008, 101, 128701.	2.9	216
64	Relaxation of synchronization on complex networks. Physical Review E, 2008, 78, 016106.	0.8	12
65	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
66	Emergence of chaotic itinerancy in simple ecological systems. Physical Review E, 2007, 76, 065201.	0.8	1
67	Analysis of topological characteristics of huge online social networking services. , 2007, , .		596
68	Korean Family Name Distribution in the Past. Journal of the Korean Physical Society, 2007, 51, 1812-1816.	0.3	14
69	Exploring local structural organization of metabolic networks using subgraph patterns. Journal of Theoretical Biology, 2006, 241, 823-829.	0.8	35
70	Wiring cost in the organization of a biological neuronal network. Physica A: Statistical Mechanics and Its Applications, 2006, 367, 531-537.	1.2	55
71	Are better conductors more rigid?. Europhysics Letters, 2006, 76, 325-331.	0.7	1
72	Inhomogeneous substructures hidden in random networks. Physical Review E, 2006, 73, 037102.	0.8	1

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73	Statistical properties of sampled networks. Physical Review E, 2006, 73, 016102.	0.8	276
74	Complex ion-distribution induced contrast reversal in STM imaging of DNA. Physical Review B, 2006, 73, .	1.1	2
75	Epidemic dynamics of two species of interacting particles on scale-free networks. Physical Review E, 2006, 74, 066113.	0.8	43
76	Effects of substrate network topologies on competition dynamics. Physical Review E, 2006, 74, 026118.	0.8	5
77	Random field Ising model on networks with inhomogeneous connections. Physical Review E, 2006, 74, 031118.	0.8	9
78	Spatio-temporal dynamics in the origin of genetic information. Physica D: Nonlinear Phenomena, 2005, 203, 88-99.	1.3	21
79	Systematic analysis of group identification in stock markets. Physical Review E, 2005, 72, 046133.	0.8	127
80	Growing network model for community with group structure. Physical Review E, 2005, 71, 036131.	0.8	34
81	Universality Class of the Fiber Bundle Model on Complex Networks. Physical Review Letters, 2005, 94, 025501.	2.9	61
82	Scale-free trees: The skeletons of complex networks. Physical Review E, 2004, 70, 046126.	0.8	94
83	Role of the cytoskeleton in signaling networks. Journal of Cell Science, 2004, 117, 2769-2775.	1.2	75
84	Pattern formation in a two-dimensional array of oscillators with phase-shifted coupling. Physical Review E, 2004, 70, 065201.	0.8	47
85	Complex scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 226-237.	1.2	35
86	Subnetwork hierarchies of biochemical pathways. Bioinformatics, 2003, 19, 532-538.	1.8	294
87	Prediction of Protein Essentiality Based on Genomic Data. Complexus, 2003, 1, 19-28.	0.7	70
88	Measuring preferential attachment in evolving networks. Europhysics Letters, 2003, 61, 567-572.	0.7	403
89	Path finding strategies in scale-free networks. Physical Review E, 2002, 65, 027103.	0.8	151
90	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

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91	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
92	Evolution of the social network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 590-614.	1.2	1,999
93	Weighted Evolving Networks. Physical Review Letters, 2001, 86, 5835-5838.	2.9	384
94	Lethality and centrality in protein networks. Nature, 2001, 411, 41-42.	13.7	4,579
95	Parasitic computing. Nature, 2001, 412, 894-897.	13.7	56
96	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
97	Error and attack tolerance of complex networks. Nature, 2000, 406, 378-382.	13.7	7,006
98	The large-scale organization of metabolic networks. Nature, 2000, 407, 651-654.	13.7	4,262
99	Dynamics of Ripple Formation in Sputter Erosion: Nonlinear Phenomena. Physical Review Letters, 1999, 83, 3486-3489.	2.9	184
100	Mean-field theory for scale-free random networks. Physica A: Statistical Mechanics and Its Applications, 1999, 272, 173-187.	1.2	1,861
101	Diameter of the World-Wide Web. Nature, 1999, 401, 130-131.	13.7	3,527