

Yi-Cheng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

18,253
citations

57631

44
h-index

20307

116
g-index

119
all docs

119
docs citations

119
times ranked

8438
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Scaling of Growing Interfaces. <i>Physical Review Letters</i> , 1986, 56, 889-892.	2.9	4,448
2	Kinetic roughening phenomena, stochastic growth, directed polymers and all that. Aspects of multidisciplinary statistical mechanics. <i>Physics Reports</i> , 1995, 254, 215-414.	10.3	1,289
3	Predicting missing links via local information. <i>European Physical Journal B</i> , 2009, 71, 623-630.	0.6	1,277
4	Vital nodes identification in complex networks. <i>Physics Reports</i> , 2016, 650, 1-63.	10.3	895
5	Identifying influential nodes in complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 1777-1787.	1.2	890
6	Bipartite network projection and personal recommendation. <i>Physical Review E</i> , 2007, 76, 046115.	0.8	830
7	Recommender systems. <i>Physics Reports</i> , 2012, 519, 1-49.	10.3	814
8	Solving the apparent diversity-accuracy dilemma of recommender systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4511-4515.	3.3	788
9	Burgers equation with correlated noise; Renormalization-group analysis and applications to directed polymers and interface growth. <i>Physical Review A</i> , 1989, 39, 3053-3075.	1.0	616
10	Leaders in Social Networks, the Delicious Case. <i>PLoS ONE</i> , 2011, 6, e21202.	1.1	545
11	Scaling of Directed Polymers in Random Media. <i>Physical Review Letters</i> , 1987, 58, 2087-2090.	2.9	491
12	Dynamics of information diffusion and its applications on complex networks. <i>Physics Reports</i> , 2016, 651, 1-34.	10.3	338
13	On the minority game: Analytical and numerical studies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 256, 514-532.	1.2	317
14	Toward link predictability of complex networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2325-2330.	3.3	315
15	Scaling theory of self-organized criticality. <i>Physical Review Letters</i> , 1989, 63, 470-473.	2.9	239
16	Personalized recommendation via integrated diffusion on user-item-tag tripartite graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 179-186.	1.2	204
17	Heat Conduction Process on Community Networks as a Recommendation Model. <i>Physical Review Letters</i> , 2007, 99, 154301.	2.9	192
18	Ranking in evolving complex networks. <i>Physics Reports</i> , 2017, 689, 1-54.	10.3	180

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19	Modeling market mechanism with minority game. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 276, 284-315.	1.2	153
20	Solving the cold-start problem in recommender systems with social tags. <i>Europhysics Letters</i> , 2010, 92, 28002.	0.7	148
21	Percolation on complex networks: Theory and application. <i>Physics Reports</i> , 2021, 907, 1-68.	10.3	141
22	Tag-Aware Recommender Systems: A State-of-the-Art Survey. <i>Journal of Computer Science and Technology</i> , 2011, 26, 767-777.	0.9	136
23	Computational network biology: Data, models, and applications. <i>Physics Reports</i> , 2020, 846, 1-66.	10.3	126
24	Empirical analysis of web-based user-object bipartite networks. <i>Europhysics Letters</i> , 2010, 90, 48006.	0.7	112
25	Accurate and diverse recommendations via eliminating redundant correlations. <i>New Journal of Physics</i> , 2009, 11, 123008.	1.2	108
26	Non-universal roughening of kinetic self-affine interfaces. <i>Journal De Physique</i> , 1990, 51, 2129-2134.	1.8	107
27	Self-organized formulation of standard percolation phenomena. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 169-179.	1.2	95
28	Evolving Models of Financial Markets. <i>Europhysics News</i> , 1998, 29, 51-54.	0.1	87
29	Computational socioeconomics. <i>Physics Reports</i> , 2019, 817, 1-104.	10.3	87
30	Extracting Hidden Information from Knowledge Networks. <i>Physical Review Letters</i> , 2001, 87, 248701.	2.9	86
31	Collaborative filtering with diffusion-based similarity on tripartite graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 1259-1264.	1.2	80
32	Statistical mechanics of competitive resource allocation using agent-based models. <i>Physics Reports</i> , 2015, 552, 1-25.	10.3	79
33	Path diversity improves the identification of influential spreaders. <i>Europhysics Letters</i> , 2013, 104, 68006.	0.7	72
34	Adaptive model for recommendation of news. <i>Europhysics Letters</i> , 2009, 88, 38005.	0.7	68
35	Dynamical optimization theory of a diversified portfolio. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 253, 403-418.	1.2	67
36	Measuring economic complexity of countries and products: which metric to use?. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	67

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37	Universal $1/f$ Noise from Dissipative Self-Organized Criticality Models. <i>Physical Review Letters</i> , 1999, 82, 472-475.	2.9	66
38	Information filtering via self-consistent refinement. <i>Europhysics Letters</i> , 2008, 82, 58007.	0.7	64
39	Multifractality of growing surfaces. <i>Physical Review A</i> , 1992, 45, R6951-R6954.	1.0	62
40	Identification of milestone papers through time-balanced network centrality. <i>Journal of Informetrics</i> , 2016, 10, 1207-1223.	1.4	59
41	Emergence of Scale-Free Leadership Structure in Social Recommender Systems. <i>PLoS ONE</i> , 2011, 6, e20648.	1.1	55
42	Effects of high-order correlations on personalized recommendations for bipartite networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 881-886.	1.2	51
43	Growth anomaly and its implications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 170, 1-13.	1.2	48
44	Ground state instability of a random system. <i>Physical Review Letters</i> , 1987, 59, 2125-2128.	2.9	47
45	Ranking nodes in growing networks: When PageRank fails. <i>Scientific Reports</i> , 2015, 5, 16181.	1.6	47
46	Prediction in complex systems: The case of the international trade network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 436, 188-199.	1.2	45
47	Ranking Reputation and Quality in Online Rating Systems. <i>PLoS ONE</i> , 2014, 9, e97146.	1.1	45
48	Relevance is more significant than correlation: Information filtering on sparse data. <i>Europhysics Letters</i> , 2009, 88, 68008.	0.7	44
49	Eden Model in Many Dimensions. <i>Physical Review Letters</i> , 1984, 53, 1791-1794.	2.9	42
50	Exactly Solved Model of Self-Organized Criticality. <i>Physical Review Letters</i> , 1995, 75, 1550-1553.	2.9	42
51	Effective mechanism for social recommendation of news. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 2117-2126.	1.2	41
52	Directed Polymers with Complex Amplitudes. <i>Europhysics Letters</i> , 1989, 9, 113-118.	0.7	38
53	Recovery rate affects the effective epidemic threshold with synchronous updating. <i>Chaos</i> , 2016, 26, 063108.	1.0	38
54	Decoding information from noisy, redundant, and intentionally distorted sources. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 732-744.	1.2	37

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55	EFFECTS OF USER'S TASTES ON PERSONALIZED RECOMMENDATION. International Journal of Modern Physics C, 2009, 20, 1925-1932.	0.8	37
56	Information filtering by similarity-preferential diffusion processes. Europhysics Letters, 2014, 105, 58002.	0.7	37
57	Replica scaling analysis of interfaces in random media. Physical Review B, 1990, 42, 4897-4900.	1.1	36
58	Non-linear Langevin model of geomorphic erosion processes. Geophysical Journal International, 1993, 113, 382-386.	1.0	36
59	Structure-oriented prediction in complex networks. Physics Reports, 2018, 750, 1-51.	10.3	36
60	Information filtering via weighted heat conduction algorithm. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2414-2420.	1.2	35
61	TREND PREDICTION IN TEMPORAL BIPARTITE NETWORKS: THE CASE OF MOVIELENS, NETFLIX, AND DIGG. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350024.	0.9	34
62	Predicting missing links via correlation between nodes. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 216-223.	1.2	34
63	Dynamics of social contagions with limited contact capacity. Chaos, 2015, 25, 103102.	1.0	34
64	The reinforcing influence of recommendations on global diversification. Europhysics Letters, 2012, 97, 18005.	0.7	32
65	Directed Wave Propagation in Random Media: Superdiffusion and Phase Transitions. Physical Review Letters, 1990, 65, 1028-1031.	2.9	31
66	Exploring an opinion network for taste prediction: An empirical study. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 753-758.	1.2	27
67	Self-organized critical directed percolation. Physica A: Statistical Mechanics and Its Applications, 1996, 223, 1-6.	1.2	26
68	Capital flow in a two-component dynamical system. Physica A: Statistical Mechanics and Its Applications, 1999, 272, 257-268.	1.2	24
69	Directed Polymers with Complex Amplitudes. Physical Review Letters, 1989, 62, 979-979.	2.9	23
70	Directed polymers in Hartree-Fock approximation. Journal of Statistical Physics, 1989, 57, 1123-1128.	0.5	21
71	Collaborative filtering based on multi-channel diffusion. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4867-4871.	1.2	21
72	DEGREE CORRELATION OF BIPARTITE NETWORK ON PERSONALIZED RECOMMENDATION. International Journal of Modern Physics C, 2010, 21, 137-147.	0.8	21

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73	The mathematics of non-linear metrics for nested networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 460, 254-269.	1.2	20
74	Separate density and viscosity measurements of unknown liquid using quartz crystal microbalance. <i>AIP Advances</i> , 2016, 6, .	0.6	19
75	Dynamical spin-glass-like behavior in an evolutionary game. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 289, 290-300.	1.2	17
76	Enhancing topology adaptation in information-sharing social networks. <i>Physical Review E</i> , 2012, 85, 046108.	0.8	17
77	The Stable Marriage Problem: An interdisciplinary review from the physicist's perspective. <i>Physics Reports</i> , 2021, 917, 1-79.	10.3	15
78	Analysis of Kelly-optimal portfolios. <i>Quantitative Finance</i> , 2010, 10, 689-697.	0.9	14
79	Information Filtering in Sparse Online Systems: Recommendation via Semi-Local Diffusion. <i>PLoS ONE</i> , 2013, 8, e79354.	1.1	14
80	Novel scaling behavior of directed polymers: Disorder distribution with long tails. <i>Journal of Statistical Physics</i> , 1990, 61, 885-889.	0.5	13
81	Modeling mutual feedback between users and recommender systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P07020.	0.9	13
82	Identifying online user reputation in terms of user preference. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 494, 403-409.	1.2	13
83	Randomizing growing networks with a time-respecting null model. <i>Physical Review E</i> , 2018, 97, 052311.	0.8	13
84	Influence blocking maximization on networks: Models, methods and applications. <i>Physics Reports</i> , 2022, 976, 1-54.	10.3	13
85	Comment on "Role of Intermittency in Urban Development: A Model of Large-Scale City Formation". <i>Physical Review Letters</i> , 1998, 80, 4830-4830.	2.9	11
86	Overhangs in interface growth and ground-state paths. <i>Physical Review E</i> , 1998, 57, 4814-4816.	0.8	11
87	Identification and impact of discoverers in online social systems. <i>Scientific Reports</i> , 2016, 6, 34218.	1.6	11
88	Kardar, Parisi, and Zhang Respond. <i>Physical Review Letters</i> , 1986, 57, 1810-1810.	2.9	10
89	Discretized Diffusion Processes. <i>Physical Review Letters</i> , 2000, 85, 4848-4851.	2.9	10
90	How Network Topologies Impact Project Alliance Performance: Evidence from the Movie Industry. <i>Entropy</i> , 2019, 21, 859.	1.1	9

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91	Bridging nestedness and economic complexity in multilayer world trade networks. Humanities and Social Sciences Communications, 2020, 7, .	1.3	9
92	Directed Polymers on a Factorized Disorder Landscape. Physical Review Letters, 1998, 81, 1023-1026.	2.9	8
93	Similarity from Multi-Dimensional Scaling: Solving the Accuracy and Diversity Dilemma in Information Filtering. PLoS ONE, 2014, 9, e111005.	1.1	8
94	Optimizing Online Social Networks for Information Propagation. PLoS ONE, 2014, 9, e96614.	1.1	7
95	A generalized model via random walks for information filtering. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2608-2614.	0.9	7
96	Adaptive social recommendation in a multiple category landscape. European Physical Journal B, 2013, 86, 1.	0.6	6
97	Firm competition in a probabilistic framework of consumer choice. Physica A: Statistical Mechanics and Its Applications, 2014, 400, 47-56.	1.2	5
98	Analysis of ground state in random bipartite matching. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 397-402.	1.2	5
99	Dynamics of Cooperation in Minority Games in Alliance Networks. Sustainability, 2018, 10, 4746.	1.6	5
100	Economic Complexity Based Recommendation Enhance the Efficiency of the Belt and Road Initiative. Entropy, 2018, 20, 718.	1.1	5
101	Feng, GoluboviÄ‡, and Zhang reply. Physical Review Letters, 1991, 66, 2177-2177.	2.9	4
102	Uncovering the popularity mechanisms for Facebook applications. Physica A: Statistical Mechanics and Its Applications, 2018, 494, 422-429.	1.2	4
103	Social signature identification of dynamical social networks. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 213-222.	1.2	4
104	Application of Markov chain approach for multi-attributes dynamic software reliability assessment under both AHP and gray correlation methods. International Journal of Modern Physics C, 2018, 29, 1840008.	0.8	4
105	Membership in social networks and the application in information filtering. European Physical Journal B, 2013, 86, 1.	0.6	3
106	Optimal timescale for community detection in growing networks. New Journal of Physics, 2019, 21, 093066.	1.2	3
107	Predicting Financial Extremes Based on Weighted Visual Graph of Major Stock Indices. Complexity, 2019, 2019, 1-17.	0.9	3
108	Ranking game on networks: The evolution of hierarchical society. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123140.	1.2	3

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109	Ground State Wave Function of a Schrödinger-Like Equation in a Time Periodic Potential. Physical Review Letters, 1996, 77, 4118-4121.	2.9	2
110	Broader scopes of the reflexivity principle in the economy. Journal of Economic Methodology, 2013, 20, 446-453.	0.6	2
111	Enhancing Countries' Fitness with Recommender Systems on the International Trade Network. Complexity, 2018, 2018, 1-12.	0.9	2
112	Multiscale community estimation based on temporary local balancing strategy. International Journal of Modern Physics C, 2020, 31, 2050056.	0.8	2
113	Negotiation problem. Physica A: Statistical Mechanics and Its Applications, 2022, 592, 126806.	1.2	2
114	TOWARDS A NEW INFORMATION THEORY. International Journal of Modern Physics B, 2004, 18, 2361-2364.	1.0	1
115	A dynamical approach to identify vertices' centrality in complex networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3972-3977.	0.9	1
116	Significance of the Nested Structure in Multiplex World Trade Networks. Complexity, 2020, 2020, 1-9.	0.9	1
117	Minority Games. , 2012, , 1863-1879.		1
118	Minority Games. , 2013, , 1-26.		0
119	Surface Growth, Directed Polymers, and 1/f Noise. , 1989, , 337-346.		0