Wei Wang

List of Publications by Year
in descending order

110	2,697	218677	214800
papers	citations	26	47
		h-index	g-index

110	110	110	1375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unification of theoretical approaches for epidemic spreading on complex networks. Reports on Progress in Physics, 2017, 80, 036603.	20.1	244
2	Asymmetrically interacting spreading dynamics on complex layered networks. Scientific Reports, 2014, 4, 5097.	3.3	189
3	Coevolution spreading in complex networks. Physics Reports, 2019, 820, 1-51.	25.6	180
4	Epidemic spreading on complex networks with general degree and weight distributions. Physical Review E, 2014, 90, 042803.	2.1	118
5	Suppressing disease spreading by using information diffusion on multiplex networks. Scientific Reports, 2016, 6, 29259.	3.3	118
6	Dynamics of social contagions with memory of nonredundant information. Physical Review E, 2015, 92, 012820.	2.1	110
7	Numerical identification of epidemic thresholds for susceptible-infected-recovered model on finite-size networks. Chaos, 2015, 25, 063104.	2.5	79
8	Dynamics of social contagions with heterogeneous adoption thresholds: crossover phenomena in phase transition. New Journal of Physics, 2016, 18, 013029.	2.9	74
9	Optimal resource diffusion for suppressing disease spreading in multiplex networks. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 053501.	2.3	61
10	Effective control of SARS-CoV-2 transmission in Wanzhou, China. Nature Medicine, 2021, 27, 86-93.	30.7	60
11	Social contagions on correlated multiplex networks. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 121-128.	2.6	56
12	Impacts of complex behavioral responses on asymmetric interacting spreading dynamics in multiplex networks. Scientific Reports, 2016, 6, 25617.	3.3	51
13	Predicting the epidemic threshold of the susceptible-infected-recovered model. Scientific Reports, 2016, 6, 24676.	3.3	41
14	Recovery rate affects the effective epidemic threshold with synchronous updating. Chaos, 2016, 26, 063108.	2.5	38
15	Social contagions on time-varying community networks. Physical Review E, 2017, 95, 052306.	2.1	38
16	Explosive spreading on complex networks: The role of synergy. Physical Review E, 2017, 95, 042320.	2.1	35
17	Competing spreading dynamics in simplicial complex. Applied Mathematics and Computation, 2022, 412, 126595.	2.2	35
18	Dynamics of social contagions with limited contact capacity. Chaos, 2015, 25, 103102.	2.5	34

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19	Effective information spreading based on local information in correlated networks. Scientific Reports, 2016, 6, 38220.	3.3	33
20	Multiplex network analysis of employee performance and employee social relationships. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 1-12.	2.6	32
21	Effective traffic-flow assignment strategy on multilayer networks. Physical Review E, 2019, 100, 012310.	2.1	32
22	Social contagions with communication channel alternation on multiplex networks. Physical Review E, 2018, 98, .	2.1	30
23	Interlayer link prediction in multiplex social networks: An iterative degree penalty algorithm. Knowledge-Based Systems, 2020, 194, 105598.	7.1	29
24	Promoting information spreading by using contact memory. Europhysics Letters, 2017, 118, 18001.	2.0	28
25	Critical phenomena of information spreading dynamics on networks with cliques. Physical Review E, 2018, 98, .	2.1	28
26	Optimal interlayer structure for promoting spreading of the susceptible-infected-susceptible model in two-layer networks. Physical Review E, 2019, 100, 022316.	2.1	27
27	Anomalous role of information diffusion in epidemic spreading. Physical Review Research, 2021, 3, .	3.6	27
28	A model of spreading of sudden events on social networks. Chaos, 2018, 28, 033113.	2.5	26
29	Effects of heterogeneous self-protection awareness on resource-epidemic coevolution dynamics. Applied Mathematics and Computation, 2020, 385, 125428.	2.2	26
30	Efficient allocation of heterogeneous response times in information spreading process. Chaos, 2014, 24, 033113.	2.5	25
31	Heterogeneous behavioral adoption in multiplex networks. New Journal of Physics, 2018, 20, 125002.	2.9	25
32	Social contagions with heterogeneous credibility. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 604-610.	2.6	24
33	Interactive social contagions and co-infections on complex networks. Chaos, 2018, 28, 013120.	2.5	22
34	Security Analysis of CPS Systems Under Different Swapping Strategies in IoT Environments. IEEE Access, 2020, 8, 63567-63576.	4.2	22
35	Phase diagrams of interacting spreading dynamics in complex networks. Physical Review Research, 2020, 2, .	3.6	22
36	Higher-order percolation in simplicial complexes. Chaos, Solitons and Fractals, 2022, 155, 111701.	5.1	22

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37	Containing misinformation spreading in temporal social networks. Chaos, 2019, 29, 123131.	2.5	21
38	Markovian approach to tackle competing pathogens in simplicial complex. Applied Mathematics and Computation, 2022, 417, 126773.	2.2	20
39	Social contagions on interdependent lattice networks. Scientific Reports, 2017, 7, 44669.	3.3	19
40	Effects of time-delays in the dynamics of social contagions. New Journal of Physics, 2018, 20, 013034.	2.9	19
41	Synergistic interactions promote behavior spreading and alter phase transitions on multiplex networks. Physical Review E, 2018, 97, 022311.	2.1	19
42	Comprehensive influence of local and global characteristics on identifying the influential nodes. Physica A: Statistical Mechanics and Its Applications, 2018, 511, 78-84.	2.6	19
43	Social contagions on weighted networks. Physical Review E, 2017, 96, 012306.	2.1	18
44	Generalized k-core percolation on higher-order dependent networks. Applied Mathematics and Computation, 2022, 420, 126793.	2.2	18
45	NetSRE: Link predictability measuring and regulating. Knowledge-Based Systems, 2020, 196, 105800.	7.1	17
46	Homophily in competing behavior spreading among the heterogeneous population with higher-order interactions. Applied Mathematics and Computation, 2022, 432, 127380.	2.2	17
47	Dynamics of social contagions with local trend imitation. Scientific Reports, 2018, 8, 7335.	3.3	16
48	Multiple peaks patterns of epidemic spreading in multi-layer networks. Chaos, Solitons and Fractals, 2018, 107, 135-142.	5.1	15
49	Impact of the heterogeneity of adoption thresholds on behavior spreading in complex networks. Applied Mathematics and Computation, 2020, 386, 125504.	2.2	15
50	Towards link inference attack against network structure perturbation. Knowledge-Based Systems, 2021, 218, 106674.	7.1	15
51	Effects of individual popularity on information spreading in complex networks. Physica A: Statistical Mechanics and Its Applications, 2018, 489, 32-39.	2.6	14
52	Information Spreading on Weighted Multiplex Social Network. Complexity, 2019, 2019, 1-15.	1.6	14
53	Suppressed epidemics in multirelational networks. Physical Review E, 2015, 92, 022812.	2.1	13
54	Predicting epidemic threshold of correlated networks: A comparison of methods. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 500-511.	2.6	13

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55	Close and ordinary social contacts: How important are they in promoting large-scale contagion?. Physical Review E, 2018, 98, .	2.1	13
56	Optimal imitation capacity and crossover phenomenon in the dynamics of social contagions. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 063405.	2.3	13
57	Misinformation spreading on correlated multiplex networks. Chaos, 2019, 29, 113123.	2.5	13
58	Optimal networks for dynamical spreading. Physical Review E, 2021, 103, 012302.	2.1	13
59	Predicting hyperlinks via hypernetwork loop structure. Europhysics Letters, 2021, 135, 48005.	2.0	13
60	Optimal community structure for social contagions. New Journal of Physics, 2018, 20, 053053.	2.9	12
61	Contagion of Information on Two-Layered Weighted Complex Network. IEEE Access, 2019, 7, 155064-155074.	4.2	12
62	Self-Awareness-Based Resource Allocation Strategy for Containment of Epidemic Spreading. Complexity, 2020, 2020, 1-12.	1.6	12
63	DeepEC: Adversarial attacks against graph structure prediction models. Neurocomputing, 2021, 437, 168-185.	5.9	12
64	IDEA: A utility-enhanced approach to incomplete data stream anonymization. Tsinghua Science and Technology, 2022, 27, 127-140.	6.1	12
65	Dynamics on Hybrid Complex Network: Botnet Modeling and Analysis of Medical IoT. Security and Communication Networks, 2019, 2019, 1-14.	1.5	11
66	Improving adversarial robustness of deep neural networks by using semantic information. Knowledge-Based Systems, 2021, 226, 107141.	7.1	11
67	Allocating resources for epidemic spreading on metapopulation networks. Applied Mathematics and Computation, 2021, 411, 126531.	2.2	11
68	Emergence of hysteresis loop in social contagions on complex networks. Scientific Reports, 2017, 7, 6103.	3.3	10
69	Double transition of information spreading in a two-layered network. Chaos, 2018, 28, 083117.	2.5	10
70	Malicious viruses spreading on complex networks with heterogeneous recovery rate. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 746-753.	2.6	10
71	Information Spreading on Two-Layered Multiplex Networks With Limited Contact. IEEE Access, 2020, 8, 104316-104325.	4.2	10
72	Containing rumors spreading on correlated multiplex networks. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 023402.	2.3	10

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73	Controlling epidemic outbreak based on local dynamic infectiousness on complex networks. Chaos, 2018, 28, 123105.	2.5	9
74	Social contagions on interconnected networks of heterogeneous populations. Chaos, 2018, 28, 113114.	2.5	9
75	Complex contagions with social reinforcement from different layers and neighbors. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 516-525.	2.6	8
76	Network temporality can promote and suppress information spreading. Chaos, 2020, 30, 113136.	2.5	7
77	Effective Edge-Based Approach for Promoting the Spreading of Information. IEEE Access, 2020, 8, 83745-83753.	4.2	7
78	Interlayer link prediction based on multiple network structural attributes. Computer Networks, 2022, 203, 108651.	5.1	7
79	Structural Predictability Optimization Against Inference Attacks in Data Publishing. IEEE Access, 2019, 7, 92119-92136.	4.2	6
80	Effects of destination selection strategy on information spreading. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 389, 127098.	2.1	6
81	Cascading failures in multiplex network under flow redistribution. Physica A: Statistical Mechanics and Its Applications, 2021, 583, 126340.	2.6	6
82	Optimizing spreading dynamics in interconnected networks. Chaos, 2019, 29, 103106.	2.5	5
83	Identifying localized influential spreaders of information spreading. Physica A: Statistical Mechanics and Its Applications, 2019, 519, 92-97.	2.6	5
84	Double-edged sword effect of edge overlap on asymmetrically interacting spreading dynamics. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 617-624.	2.6	5
85	The optimal edge for containing the spreading of SIS model. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 043501.	2.3	5
86	Interlayer Link Prediction in Multiplex Social Networks Based on Multiple Types of Consistency Between Embedding Vectors. IEEE Transactions on Cybernetics, 2023, 53, 2426-2439.	9.5	5
87	Percolation on simplicial complexes. Applied Mathematics and Computation, 2022, 431, 127330.	2.2	5
88	Crossover phenomena in growth pattern of social contagions with restricted contact. Chaos, Solitons and Fractals, 2018, 114, 408-414.	5.1	4
89	Irreversible contact process on complex networks with dynamical recovery probability. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121336.	2.6	4
90	Interconnecting strategy of bridging multilayer networks to maximize synchronizability. Europhysics Letters, 2019, 125, 18003.	2.0	4

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91	Social contagions on multiplex networks with heterogeneous population. Physica A: Statistical Mechanics and Its Applications, 2019, 516, 105-113.	2.6	4
92	Multi-View Low-Rank Coding-Based Network Data De-Anonymization. IEEE Access, 2020, 8, 94575-94593.	4.2	4
93	Network structural perturbation against interlayer link prediction. Knowledge-Based Systems, 2022, 250, 109095.	7.1	4
94	Phase transition of a generalized contact process on complex networks. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122218.	2.6	3
95	Social reinforcement inducing discontinuous spreading in complex networks. Europhysics Letters, 2019, 128, 68002.	2.0	3
96	Information spreading on multirelational networks. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 21-28.	2.6	3
97	Discriminability of node influence in flower fractal scale-free networks. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 208901.	0.5	3
98	Degree-correlaed vaccination in aymmetric interacting spreading dynamics. , 2017, , .		2
99	Epidemic spreading dynamics with drug resistance and heterogeneous contacts. Journal of Theoretical Biology, 2018, 441, 19-27.	1.7	2
100	Social contagions on multiplex networks with different reliability. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 728-735.	2.6	2
101	The Influence of Network Structural Preference on Link Prediction. Discrete Dynamics in Nature and Society, 2020, 2020, 1-9.	0.9	2
102	Complex Social Contagions on Weighted Networks Considering Adoption Threshold Heterogeneity. IEEE Access, 2020, 8, 61905-61914.	4.2	2
103	Information spreading on metapopulation networks with heterogeneous contacting. International Journal of Modern Physics C, 2022, 33, .	1.7	2
104	Analysis of E-mail Account Probing Attack Based on Graph Mining. Scientific Reports, 2020, 10, 7240.	3.3	1
105	Information diffusion structure on social networks with general degree distribution. International Journal of Modern Physics C, 2021, 32, 2150047.	1.7	1
106	Shortest path of temporal networks: An information spreading-based approach. Chinese Physics B, 2020, 29, 128902.	1.4	1
107	Effects of mass medias on the dynamics of social contagions. , 2016, , .		0
108	A general social contagion dynamic in interconnected lattices. Physica A: Statistical Mechanics and Its Applications, 2018, 511, 272-279.	2.6	0

#	ARTICLE	IF	CITATIONS
109	Containing Epidemic Spreading on Networks with Neighbor Resource Supporting. Complexity, 2020, 2020, 1-13.	1.6	0
110	Dynamical Modeling, Analysis, and Control of Information Diffusion over Social Networks. Discrete Dynamics in Nature and Society, 2021, 2021, 1-2.	0.9	0