Gang Yan

List of Publications by Year
in descending order

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45 papers	3,077 citations	331670 21 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	2109 citing authors

#	Article	IF	Citations
1	Multilayer-Aggregation Functional Network for Identifying Brain Fatigue and Diseases. Frontiers in Physics, 2022, 9, .	2.1	1
2	Autonomous inference of complex network dynamics from incomplete and noisy data. Nature Computational Science, 2022, 2, 160-168.	8.0	17
3	Nonparametric Power-Law Surrogates. Physical Review X, 2022, 12, .	8.9	4
4	Machine learning approach for the prediction and optimization of thermal transport properties. Frontiers of Physics, 2021, 16, 1.	5.0	39
5	Detecting and modelling real percolation and phase transitions of information on social media. Nature Human Behaviour, 2021, 5, 1161-1168.	12.0	20
6	Why temporal networks are more controllable: Link weight variation offers superiority. Physical Review Research, 2021, 3, .	3.6	4
7	Network-Based Heterogeneous Particle Swarm Optimization and Its Application in UAV Communication Coverage. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 312-323.	4.9	38
8	Tailoring Echo State Networks for Optimal Learning. IScience, 2020, 23, 101440.	4.1	16
9	Mean local autocovariance provides robust and versatile choice of delay for reconstruction using frequently sampled flowlike data. Physical Review E, 2020, 101, 012214.	2.1	2
10	Predictability of real temporal networks. National Science Review, 2020, 7, 929-937.	9.5	31
11	Visual Analytics of Anomalous User Behaviors: A Survey. IEEE Transactions on Big Data, 2020, , 1-1.	6.1	7
12	Introduction to the Special Section on Network Science in Biological and Bio-Inspired Systems. IEEE Transactions on Network Science and Engineering, 2020, 7, 409-410.	6.4	0
13	A graph representation of functional diversity of brain regions. Brain and Behavior, 2019, 9, e01358.	2.2	7
14	An introduction to the special issue. International Journal of Modern Physics C, 2019, 30, 1902001.	1.7	0
15	Caenorhabditis elegans and the network control frameworkâ€”FAQs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170372.	4.0	23
16	Identifying vital edges in Chinese air route network via memetic algorithm. Chinese Journal of Aeronautics, 2017, 30, 330-336.	5.3	55
17	Degree heterogeneity and stability of ecological networks. Journal of the Royal Society Interface, 2017, 14, 20170189.	3.4	20
18	Network control principles predict neuron function in the Caenorhabditis elegans connectome. Nature, 2017, 550, 519-523.	27.8	279

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19	Recordings of Caenorhabditis elegans locomotor behaviour following targeted ablation of single motorneurons. Scientific Data, 2017, 4, 170156.	5.3	14
20	Heterogeneous Strategy Particle Swarm Optimization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 467-471.	3.0	44
21	The Impact of Population Structure on Particle Swarm Optimization: A Network Science Perspective. Lecture Notes in Computer Science, 2016, , 341-349.	1.3	3
22	Selectively-informed particle swarm optimization. Scientific Reports, 2015, 5, 9295.	3.3	126
23	Spectrum of controlling and observing complexÂnetworks. Nature Physics, 2015, 11, 779-786.	16.7	212
24	Efficient routing on multilayered communication networks. Europhysics Letters, 2013, 102, 28002.	2.0	29
25	The effect of bacterial contamination on the heterotrophic cultivation of Chlorella pyrenoidosa in wastewater from the production of soybean products. Water Research, 2012, 46, 5509-5516.	11.3	149
26	Controlling Complex Networks: How Much Energy Is Needed?. Physical Review Letters, 2012, 108, 218703.	7.8	317
27	The effect of packet lifetime on scale-free network information traffic. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3982-3988.	2.6	12
28	Enhancing network transmission capacity by efficiently allocating node capability. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 387-391.	2.6	38
29	Synchronization performance of complex oscillator networks. Physical Review E, 2009, 80, 056116.	2.1	18
30	Development of friendship network among young scientists in an international Summer School. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3636-3642.	2.6	2
31	Synchronization in Complex Networks with Different Sort of Communities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 924-933.	0.3	1
32	Consensus on de Bruijn graphs. European Physical Journal B, 2008, 63, 515-520.	1.5	3
33	Epidemic threshold and phase transition in scale-free networks with asymmetric infection. European Physical Journal B, 2008, 65, 591-594.	1.5	10
34	Collective synchronization induced by epidemic dynamics on complex networks with communities. Physical Review E, 2007, 75, 016108.	2.1	100
35	Scaling behavior of an artificial traffic model on scale-free networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 14-19.	2.1	16
36	Phase synchronization on scale-free networks with community structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 431-434.	2.1	71

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37	Efficient routing on complex networks. Physical Review E, 2006, 73, 046108.	2.1	546
38	Relations between average distance, heterogeneity and network synchronizability. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 773-780.	2.6	82
39	Traffic dynamics based on an efficient routing strategy on scale free networks. European Physical Journal B, 2006, 49, 205-211.	1.5	37
40	Self-Organization of Topology and Weight Dynamics on Networks from Merging and Regeneration. Chinese Physics Letters, 2006, 23, 275-278.	3.3	10
41	Reply to â€œComment on â€˜Maximal planar networks with large clustering coefficient and power-law degree distributionâ€™â€‰â€•. Physical Review E, 2006, 73, .	2.1	1
42	Mutual attraction model for both assortative and disassortative weighted networks. Physical Review E, 2006, 73, 016133.	2.1	42
43	Integrating local static and dynamic information for routing traffic. Physical Review E, 2006, 74, 016101.	2.1	182
44	Maximal planar networks with large clustering coefficient and power-law degree distribution. Physical Review E, 2005, 71, 046141.	2.1	215
45	General Dynamics of Topology and Traffic on Weighted Technological Networks. Physical Review Letters, 2005, 94, 188702.	7.8	234