

# 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	Efficient routing on complex networks. <i>Physical Review E</i> , 2006, 73, 046108.	2.1	546
2	Controlling Complex Networks: How Much Energy Is Needed?. <i>Physical Review Letters</i> , 2012, 108, 218703.	7.8	317
3	Network control principles predict neuron function in the <i>Caenorhabditis elegans</i> connectome. <i>Nature</i> , 2017, 550, 519-523.	27.8	279
4	General Dynamics of Topology and Traffic on Weighted Technological Networks. <i>Physical Review Letters</i> , 2005, 94, 188702.	7.8	234
5	Maximal planar networks with large clustering coefficient and power-law degree distribution. <i>Physical Review E</i> , 2005, 71, 046141.	2.1	215
6	Spectrum of controlling and observing complex networks. <i>Nature Physics</i> , 2015, 11, 779-786.	16.7	212
7	Integrating local static and dynamic information for routing traffic. <i>Physical Review E</i> , 2006, 74, 016101.	2.1	182
8	The effect of bacterial contamination on the heterotrophic cultivation of <i>Chlorella pyrenoidosa</i> in wastewater from the production of soybean products. <i>Water Research</i> , 2012, 46, 5509-5516.	11.3	149
9	Selectively-informed particle swarm optimization. <i>Scientific Reports</i> , 2015, 5, 9295.	3.3	126
10	Collective synchronization induced by epidemic dynamics on complex networks with communities. <i>Physical Review E</i> , 2007, 75, 016108.	2.1	100
11	Relations between average distance, heterogeneity and network synchronizability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 773-780.	2.6	82
12	Phase synchronization on scale-free networks with community structure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 368, 431-434.	2.1	71
13	Identifying vital edges in Chinese air route network via memetic algorithm. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 330-336.	5.3	55
14	Heterogeneous Strategy Particle Swarm Optimization. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017, 64, 467-471.	3.0	44
15	Mutual attraction model for both assortative and disassortative weighted networks. <i>Physical Review E</i> , 2006, 73, 016133.	2.1	42
16	Machine learning approach for the prediction and optimization of thermal transport properties. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	39
17	Enhancing network transmission capacity by efficiently allocating node capability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 387-391.	2.6	38
18	Network-Based Heterogeneous Particle Swarm Optimization and Its Application in UAV Communication Coverage. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2020, 4, 312-323.	4.9	38

#	ARTICLE	IF	CITATIONS
19	Traffic dynamics based on an efficient routing strategy on scale free networks. European Physical Journal B, 2006, 49, 205-211.	1.5	37
20	Predictability of real temporal networks. National Science Review, 2020, 7, 929-937.	9.5	31
21	Efficient routing on multilayered communication networks. Europhysics Letters, 2013, 102, 28002.	2.0	29
22	<i>Caenorhabditis elegans</i> and the network control frameworkâ€”FAQs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170372.	4.0	23
23	Degree heterogeneity and stability of ecological networks. Journal of the Royal Society Interface, 2017, 14, 20170189.	3.4	20
24	Detecting and modelling real percolation and phase transitions of information on social media. Nature Human Behaviour, 2021, 5, 1161-1168.	12.0	20
25	Synchronization performance of complex oscillator networks. Physical Review E, 2009, 80, 056116.	2.1	18
26	Autonomous inference of complex network dynamics from incomplete and noisy data. Nature Computational Science, 2022, 2, 160-168.	8.0	17
27	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
28	Tailoring Echo State Networks for Optimal Learning. IScience, 2020, 23, 101440.	4.1	16
29	Recordings of <i>Caenorhabditis elegans</i> locomotor behaviour following targeted ablation of single motoneurons. Scientific Data, 2017, 4, 170156.	5.3	14
30	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
31	Self-Organization of Topology and Weight Dynamics on Networks from Merging and Regeneration. Chinese Physics Letters, 2006, 23, 275-278.	3.3	10
32	Epidemic threshold and phase transition in scale-free networks with asymmetric infection. European Physical Journal B, 2008, 65, 591-594.	1.5	10
33	A graph representation of functional diversity of brain regions. Brain and Behavior, 2019, 9, e01358.	2.2	7
34	Visual Analytics of Anomalous User Behaviors: A Survey. IEEE Transactions on Big Data, 2020, , 1-1.	6.1	7
35	Why temporal networks are more controllable: Link weight variation offers superiority. Physical Review Research, 2021, 3, .	3.6	4
36	Nonparametric Power-Law Surrogates. Physical Review X, 2022, 12, .	8.9	4

#	ARTICLE	IF	CITATIONS
37	Consensus on de Bruijn graphs. European Physical Journal B, 2008, 63, 515-520.	1.5	3
38	The Impact of Population Structure on Particle Swarm Optimization: A Network Science Perspective. Lecture Notes in Computer Science, 2016, , 341-349.	1.3	3
39	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
40	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
41	Reply to "Comment on "Maximal planar networks with large clustering coefficient and power-law degree distribution". Physical Review E, 2006, 73, .	2.1	1
42	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
43	Multilayer-Aggregation Functional Network for Identifying Brain Fatigue and Diseases. Frontiers in Physics, 2022, 9, .	2.1	1
44	An introduction to the special issue. International Journal of Modern Physics C, 2019, 30, 1902001.	1.7	0
45	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