Lazaros K Gallos

List of Publications by Year
in descending order

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45 papers	4,475 citations	393982 19 h-index	264894 42 g-index
46 all docs	46 docs citations	46 times ranked	3732 citing authors

#	Article	IF	Citations
1	Identification of influential spreaders in complex networks. Nature Physics, 2010, 6, 888-893.	6.5	2,386
2	A small world of weak ties provides optimal global integration of self-similar modules in functional brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2825-2830.	3.3	331
3	How to calculate the fractal dimension of a complex network: the box covering algorithm. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P03006-P03006.	0.9	252
4	Stability and Topology of Scale-Free Networks under Attack and Defense Strategies. Physical Review Letters, 2005, 94, 188701.	2.9	248
5	Scaling theory of transport in complex biological networks. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7746-7751.	3.3	170
6	A review of fractality and self-similarity in complex networks. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 686-691.	1.2	138
7	Improving immunization strategies. Physical Review E, 2007, 75, 045104.	0.8	113
8	The Conundrum of Functional Brain Networks: Small-World Efficiency or Fractal Modularity. Frontiers in Physiology, 2012, 3, 123.	1.3	83
9	Absence of Kinetic Effects in Reaction-Diffusion Processes in Scale-Free Networks. Physical Review Letters, 2004, 92, 138301.	2.9	74
10	Scaling of Degree Correlations and Its Influence on Diffusion in Scale-Free Networks. Physical Review Letters, 2008, 100, 248701.	2.9	70
11	Explosive percolation in the human protein homology network. European Physical Journal B, 2010, 75, 305-310.	0.6	59
12	Random walk and trapping processes on scale-free networks. Physical Review E, 2004, 70, 046116.	0.8	56
13	Collective behavior in the spatial spreading of obesity. Scientific Reports, 2012, 2, 454.	1.6	50
14	Modularity map of the network of human cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5750-5755.	3.3	40
15	Reaction-diffusion processes on correlated and uncorrelated scale-free networks. Physical Review E, 2005, 72, 017101.	0.8	39
16	How People Interact in Evolving Online Affiliation Networks. Physical Review X, 2012, 2, .	2.8	33
17	Tolerance of scale-free networks: from friendly to intentional attack strategies. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 504-509.	1.2	30
18	Simple and efficient self-healing strategy for damaged complex networks. Physical Review E, 2015, 92, 052806.	0.8	29

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19	Electronic coupling responsible for energy transfer in columnar liquid crystals. Chemical Physics Letters, 1999, 306, 163-167.	1.2	22
20	IMDB Network Revisited: Unveiling Fractal and Modular Properties from a Typical Small-World Network. PLoS ONE, 2013, 8, e66443.	1.1	22
21	Distribution of infected mass in disease spreading in scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 117-123.	1.2	19
22	Spatial correlations in geographical spreading of COVID-19 in the United States. Scientific Reports, 2022, 12, 699.	1.6	18
23	Conduction anisotropy in layered semiconductors. Physical Review B, 1994, 50, 14643-14646.	1.1	17
24	SELF-ORGANIZING SOCIAL HIERARCHIES ON SCALE-FREE NETWORKS. International Journal of Modern Physics C, 2005, 16, 1329-1336.	0.8	17
25	Degeneracy, orientational disorder and chromophore size effects on Frenkel excitons in columnar mesophases. Chemical Physics, 2001, 269, 147-158.	0.9	16
26	Trapping and survival probability in two dimensions. Physical Review E, 2001, 63, 021104.	0.8	16
27	Fractal and Transfractal Scale-Free Networks. , 2009, , 3924-3943.		16
28	The Effect of Disease-Induced Mortality on Structural Network Properties. PLoS ONE, 2015, 10, e0136704.	1.1	12
29	Influence of a complex network substrate on reactionâ€“diffusion processes. Journal of Physics Condensed Matter, 2007, 19, 065123.	0.7	10
30	Scale-free networks resistant to intentional attacks. Europhysics Letters, 2007, 80, 58002.	0.7	9
31	A generic arboviral model framework for exploring trade-offs between vector control and environmental concerns. Journal of Theoretical Biology, 2020, 490, 110161.	0.8	9
32	Photophysical behavior of a homologous series of amphiphilic hemicyanine dyes in thin AOT films. Chemical Physics, 2002, 275, 253-260.	0.9	8
33	Characteristics of reaction-diffusion on scale-free networks. Physical Review E, 2006, 74, 056107.	0.8	8
34	Revealing effective classifiers through network comparison. Europhysics Letters, 2014, 108, 38001.	0.7	8
35	Accurate estimation of the survival probability for trapping in two dimensions. Physical Review E, 2001, 64, 051111.	0.8	7
36	Computational study of energy transfer in two-dimensional J-aggregates. Journal of Luminescence, 2004, 110, 246-252.	1.5	7

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37	Commercial Transport During a Pandemic: Network Analysis to Reconcile COVID-19 Diffusion and Vital Supply Chain Resilience. Journal of Occupational and Environmental Medicine, 2020, 62, e537-e538.	0.9	7
38	Propinquity drives the emergence of network structure and density. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20360-20365.	3.3	6
39	Anomaly detection through information sharing under different topologies. Eurasip Journal on Information Security, 2017, 2017, .	2.2	4
40	Fractal and Transfractal Scale-Free Networks. , 2012, , 637-656.		4
41	Distribution of the number of distinct sites visited by random walks in disordered lattices. Physical Review E, 1995, 52, 1520-1527.	0.8	3
42	Computer Simulation of Discrete Crack Propagation. Journal of the Mechanical Behavior of Materials, 2003, 14, 9-22.	0.7	2
43	Prisonerâ€™s dilemma on scale-free networks. AIP Conference Proceedings, 2005, , .	0.3	1
44	Reaction-diffusion processes in scale-free networks. , 2003, , .		0
45	MONTE CARLO SIMULATION OF THE MOBILITY IN QUASI-ONE-DIMENSIONAL SYSTEMS DISCOTIC LIQUID CRYSTALS. Molecular Crystals and Liquid Crystals, 2004, 413, 125-134.	0.4	0