

# M E J Newman

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

49,422  
citations

81900

39  
h-index

149698

56  
g-index

60  
all docs

60  
docs citations

60  
times ranked

29056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding and evaluating community structure in networks. <i>Physical Review E</i> , 2004, 69, 026113.	2.1	9,503
2	Modularity and community structure in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8577-8582.	7.1	9,017
3	Fast algorithm for detecting community structure in networks. <i>Physical Review E</i> , 2004, 69, 066133.	2.1	3,851
4	Assortative Mixing in Networks. <i>Physical Review Letters</i> , 2002, 89, 208701.	7.8	3,749
5	Finding community structure in networks using the eigenvectors of matrices. <i>Physical Review E</i> , 2006, 74, 036104.	2.1	3,485
6	Random graphs with arbitrary degree distributions and their applications. <i>Physical Review E</i> , 2001, 64, 026118.	2.1	2,651
7	Mixing patterns in networks. <i>Physical Review E</i> , 2003, 67, 026126.	2.1	2,156
8	Analysis of weighted networks. <i>Physical Review E</i> , 2004, 70, 056131.	2.1	1,735
9	Hierarchical structure and the prediction of missing links in networks. <i>Nature</i> , 2008, 453, 98-101.	27.8	1,674
10	Detecting community structure in networks. <i>European Physical Journal B</i> , 2004, 38, 321-330.	1.5	1,549
11	Coauthorship networks and patterns of scientific collaboration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5200-5205.	7.1	1,422
12	Stochastic blockmodels and community structure in networks. <i>Physical Review E</i> , 2011, 83, 016107.	2.1	1,198
13	Why social networks are different from other types of networks. <i>Physical Review E</i> , 2003, 68, 036122.	2.1	977
14	Communities, modules and large-scale structure in networks. <i>Nature Physics</i> , 2012, 8, 25-31.	16.7	633
15	Mixture models and exploratory analysis in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9564-9569.	7.1	421
16	Properties of highly clustered networks. <i>Physical Review E</i> , 2003, 68, 026121.	2.1	355
17	Structure of growing social networks. <i>Physical Review E</i> , 2001, 64, 046132.	2.1	347
18	Random Graphs with Clustering. <i>Physical Review Letters</i> , 2009, 103, 058701.	7.8	337

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19	Spectral methods for community detection and graph partitioning. <i>Physical Review E</i> , 2013, 88, 042822.	2.1	276
20	Structure and inference in annotated networks. <i>Nature Communications</i> , 2016, 7, 11863.	12.8	227
21	Threshold Effects for Two Pathogens Spreading on a Network. <i>Physical Review Letters</i> , 2005, 95, 108701.	7.8	221
22	Equivalence between modularity optimization and maximum likelihood methods for community detection. <i>Physical Review E</i> , 2016, 94, 052315.	2.1	215
23	Graph Spectra and the Detectability of Community Structure in Networks. <i>Physical Review Letters</i> , 2012, 108, 188701.	7.8	209
24	Localization and centrality in networks. <i>Physical Review E</i> , 2014, 90, 052808.	2.1	208
25	Percolation on Sparse Networks. <i>Physical Review Letters</i> , 2014, 113, 208702.	7.8	185
26	Network structure from rich but noisy data. <i>Nature Physics</i> , 2018, 14, 542-545.	16.7	137
27	Resource Letter CSâ€“1: Complex Systems. <i>American Journal of Physics</i> , 2011, 79, 800-810.	0.7	135
28	Identification of core-periphery structure in networks. <i>Physical Review E</i> , 2015, 91, 032803.	2.1	130
29	Estimating the Number of Communities in a Network. <i>Physical Review Letters</i> , 2016, 117, 078301.	7.8	103
30	Random graphs containing arbitrary distributions of subgraphs. <i>Physical Review E</i> , 2010, 82, 066118.	2.1	100
31	Balance in signed networks. <i>Physical Review E</i> , 2019, 99, 012320.	2.1	69
32	Interacting Epidemics and Coinfection on Contact Networks. <i>PLoS ONE</i> , 2013, 8, e71321.	2.5	65
33	Generalized Communities in Networks. <i>Physical Review Letters</i> , 2015, 115, 088701.	7.8	55
34	Component sizes in networks with arbitrary degree distributions. <i>Physical Review E</i> , 2007, 76, 045101.	2.1	51
35	Multiway spectral community detection in networks. <i>Physical Review E</i> , 2015, 92, 052808.	2.1	51
36	Structural inference for uncertain networks. <i>Physical Review E</i> , 2016, 93, 012306.	2.1	46

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37	Consistency of community structure in complex networks. <i>Physical Review E</i> , 2020, 101, 052306.	2.1	46
38	Message passing on networks with loops. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23398-23403.	7.1	44
39	Bicomponents and the Robustness of Networks to Failure. <i>Physical Review Letters</i> , 2008, 100, 138701.	7.8	41
40	Estimating network structure from unreliable measurements. <i>Physical Review E</i> , 2018, 98, .	2.1	41
41	Spectra of random graphs with community structure and arbitrary degrees. <i>Physical Review E</i> , 2014, 89, 042816.	2.1	37
42	Improved mutual information measure for clustering, classification, and community detection. <i>Physical Review E</i> , 2020, 101, 042304.	2.1	35
43	Bayesian inference of network structure from unreliable data. <i>Journal of Complex Networks</i> , 2021, 8, .	1.8	30
44	MAPS AND CARTOGRAMS OF THE 2004 US PRESIDENTIAL ELECTION RESULTS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2005, 08, 117-123.	1.4	29
45	Belief propagation for networks with loops. <i>Science Advances</i> , 2021, 7, .	10.3	26
46	Structure of Online Dating Markets in U.S. Cities. <i>Sociological Science</i> , 2019, 6, 219-234.	2.0	19
47	Reconstruction of plant-pollinator networks from observational data. <i>Nature Communications</i> , 2021, 12, 3911.	12.8	18
48	Equitable random graphs. <i>Physical Review E</i> , 2014, 90, 052824.	2.1	17
49	Spectra of networks containing short loops. <i>Physical Review E</i> , 2019, 100, 012314.	2.1	17
50	Mixing patterns and individual differences in networks. <i>Physical Review E</i> , 2019, 99, 042306.	2.1	17
51	Reply to "Comment on "Subgraphs in random networks". <i>Physical Review E</i> , 2004, 70, .	2.1	16
52	Power-Law Distribution. <i>Significance</i> , 2017, 14, 10-11.	0.4	14
53	Spectra of random networks with arbitrary degrees. <i>Physical Review E</i> , 2019, 99, 042309.	2.1	14
54	Representative community divisions of networks. <i>Communications Physics</i> , 2022, 5, .	5.3	9

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55	The friendship paradox in real and model networks. <i>Journal of Complex Networks</i> , 2021, 9, .	1.8	6
56	Clustering of heterogeneous populations of networks. <i>Physical Review E</i> , 2022, 105, 014312.	2.1	3
57	Cutting Through the Noise to Infer Autonomous System Topology. , 2022, , .		3