

M E J Newman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

36,686
citations

35
h-index

60
g-index

60
ext. papers

43,648
ext. citations

5.9
avg, IF

8.55
L-index

#	Paper	IF	Citations
56	Clustering of heterogeneous populations of networks.. <i>Physical Review E</i> , 2022 , 105, 014312	2.4	0
55	Bayesian inference of network structure from unreliable data. <i>Journal of Complex Networks</i> , 2021 , 8,	1.7	5
54	Belief propagation for networks with loops. <i>Science Advances</i> , 2021 , 7,	14.3	7
53	Reconstruction of plant-pollinator networks from observational data. <i>Nature Communications</i> , 2021 , 12, 3911	17.4	4
52	Consistency of community structure in complex networks. <i>Physical Review E</i> , 2020 , 101, 052306	2.4	25
51	Improved mutual information measure for clustering, classification, and community detection. <i>Physical Review E</i> , 2020 , 101, 042304	2.4	16
50	Balance in signed networks. <i>Physical Review E</i> , 2019 , 99, 012320	2.4	35
49	Spectra of random networks with arbitrary degrees. <i>Physical Review E</i> , 2019 , 99, 042309	2.4	6
48	Mixing patterns and individual differences in networks. <i>Physical Review E</i> , 2019 , 99, 042306	2.4	10
47	Spectra of networks containing short loops. <i>Physical Review E</i> , 2019 , 100, 012314	2.4	11
46	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	11.5	20
45	Structure of Online Dating Markets in U.S. Cities. <i>Sociological Science</i> , 2019 , 6, 219-234	18	13
44	Network structure from rich but noisy data. <i>Nature Physics</i> , 2018 , 14, 542-545	16.2	83
43	Estimating network structure from unreliable measurements. <i>Physical Review E</i> , 2018 , 98,	2.4	20
42	Power-law distribution. <i>Significance</i> , 2017 , 14, 10-11	0.5	8
41	Equivalence between modularity optimization and maximum likelihood methods for community detection. <i>Physical Review E</i> , 2016 , 94, 052315	2.4	124
40	Structural inference for uncertain networks. <i>Physical Review E</i> , 2016 , 93, 012306	2.4	30

39	Structure and inference in annotated networks. <i>Nature Communications</i> , 2016 , 7, 11863	17.4	166
38	Estimating the Number of Communities in a Network. <i>Physical Review Letters</i> , 2016 , 117, 078301	7.4	77
37	Identification of core-periphery structure in networks. <i>Physical Review E</i> , 2015 , 91, 032803	2.4	99
36	Multisway spectral community detection in networks. <i>Physical Review E</i> , 2015 , 92, 052808	2.4	39
35	Generalized Communities in Networks. <i>Physical Review Letters</i> , 2015 , 115, 088701	7.4	45
34	Percolation on sparse networks. <i>Physical Review Letters</i> , 2014 , 113, 208702	7.4	152
33	Equitable random graphs. <i>Physical Review E</i> , 2014 , 90, 052824	2.4	14
32	Localization and centrality in networks. <i>Physical Review E</i> , 2014 , 90, 052808	2.4	154
31	Spectra of random graphs with community structure and arbitrary degrees. <i>Physical Review E</i> , 2014 , 89, 042816	2.4	32
30	Spectral methods for community detection and graph partitioning. <i>Physical Review E</i> , 2013 , 88, 042822	2.4	200
29	Interacting epidemics and coinfection on contact networks. <i>PLoS ONE</i> , 2013 , 8, e71321	3.7	54
28	Graph spectra and the detectability of community structure in networks. <i>Physical Review Letters</i> , 2012 , 108, 188701	7.4	170
27	Communities, modules and large-scale structure in networks. <i>Nature Physics</i> , 2012 , 8, 25-31	16.2	457
26	Resource Letter CSII: Complex Systems. <i>American Journal of Physics</i> , 2011 , 79, 800-810	0.7	96
25	Stochastic blockmodels and community structure in networks. <i>Physical Review E</i> , 2011 , 83, 016107	2.4	849
24	Random graphs containing arbitrary distributions of subgraphs. <i>Physical Review E</i> , 2010 , 82, 066118	2.4	87
23	Random graphs with clustering. <i>Physical Review Letters</i> , 2009 , 103, 058701	7.4	277
22	Hierarchical structure and the prediction of missing links in networks. <i>Nature</i> , 2008 , 453, 98-101	50.4	1294

21	Bicomponents and the robustness of networks to failure. <i>Physical Review Letters</i> , 2008 , 100, 138701	7.4	35
20	Mixture models and exploratory analysis in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9564-9	11.5	356
19	Component sizes in networks with arbitrary degree distributions. <i>Physical Review E</i> , 2007 , 76, 045101	2.4	43
18	Modularity and community structure in networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8577-82	11.5	6503
17	Finding community structure in networks using the eigenvectors of matrices. <i>Physical Review E</i> , 2006 , 74, 036104	2.4	2620
16	Threshold effects for two pathogens spreading on a network. <i>Physical Review Letters</i> , 2005 , 95, 108701	7.4	184
15	MAPS AND CARTOGRAMS OF THE 2004 US PRESIDENTIAL ELECTION RESULTS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2005 , 08, 117-123	0.8	22
14	Reply to "Comment on Subgraphs in random networks" <i>Physical Review E</i> , 2004 , 70,	2.4	16
13	Coauthorship networks and patterns of scientific collaboration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101 Suppl 1, 5200-5	11.5	1077
12	Detecting community structure in networks. <i>European Physical Journal B</i> , 2004 , 38, 321-330	1.2	1144
11	Finding and evaluating community structure in networks. <i>Physical Review E</i> , 2004 , 69, 026113	2.4	6992
10	Analysis of weighted networks. <i>Physical Review E</i> , 2004 , 70, 056131	2.4	1327
9	Fast algorithm for detecting community structure in networks. <i>Physical Review E</i> , 2004 , 69, 066133	2.4	2811
8	Properties of highly clustered networks. <i>Physical Review E</i> , 2003 , 68, 026121	2.4	304
7	Mixing patterns in networks. <i>Physical Review E</i> , 2003 , 67, 026126	2.4	1656
6	Why social networks are different from other types of networks. <i>Physical Review E</i> , 2003 , 68, 036122	2.4	778
5	Assortative mixing in networks. <i>Physical Review Letters</i> , 2002 , 89, 208701	7.4	3000
4	Structure of growing social networks. <i>Physical Review E</i> , 2001 , 64, 046132	2.4	278

- 3 Random graphs with arbitrary degree distributions and their applications. *Physical Review E*, **2001**, 64, 026118 2.4 2133
- 2 Reconstruction of plant-pollinator networks from observational data 3
- 1 An improved demand curve for analysis of food or drug consumption in animal experiments 1