

Marian Boguna

List of Publications by Citations

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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.

89
papers

7,184
citations

41
h-index

84
g-index

95
ext. papers

8,205
ext. citations

5.5
avg, IF

6.2
L-index

#	Paper	IF	Citations
89	Generation of uncorrelated random scale-free networks. <i>Physical Review E</i> , 2005 , 71, 027103	2.4	506
88	Models of social networks based on social distance attachment. <i>Physical Review E</i> , 2004 , 70, 056122	2.4	441
87	Extracting the multiscale backbone of complex weighted networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6483-8	11.5	416
86	Hyperbolic geometry of complex networks. <i>Physical Review E</i> , 2010 , 82, 036106	2.4	402
85	Absence of epidemic threshold in scale-free networks with degree correlations. <i>Physical Review Letters</i> , 2003 , 90, 028701	7.4	379
84	Topology of the world trade web. <i>Physical Review E</i> , 2003 , 68, 015101	2.4	348
83	Epidemic spreading in correlated complex networks. <i>Physical Review E</i> , 2002 , 66, 047104	2.4	336
82	Popularity versus similarity in growing networks. <i>Nature</i> , 2012 , 489, 537-40	50.4	323
81	Navigability of complex networks. <i>Nature Physics</i> , 2009 , 5, 74-80	16.2	277
80	Class of correlated random networks with hidden variables. <i>Physical Review E</i> , 2003 , 68, 036112	2.4	272
79	Cut-offs and finite size effects in scale-free networks. <i>European Physical Journal B</i> , 2004 , 38, 205-209	1.2	244
78	Epidemic spreading on interconnected networks. <i>Physical Review E</i> , 2012 , 86, 026106	2.4	233
77	Sustaining the Internet with hyperbolic mapping. <i>Nature Communications</i> , 2010 , 1, 62	17.4	209
76	Nature of the epidemic threshold for the susceptible-infected-susceptible dynamics in networks. <i>Physical Review Letters</i> , 2013 , 111, 068701	7.4	182
75	Self-similarity of complex networks and hidden metric spaces. <i>Physical Review Letters</i> , 2008 , 100, 078701	7.4	157
74	Percolation and epidemic thresholds in clustered networks. <i>Physical Review Letters</i> , 2006 , 97, 088701	7.4	142
73	Patterns of dominant flows in the world trade web. <i>Journal of Economic Interaction and Coordination</i> , 2007 , 2, 111-124	1.1	126

72	Quantifying randomness in real networks. <i>Nature Communications</i> , 2015 , 6, 8627	17.4	98
71	Generalized percolation in random directed networks. <i>Physical Review E</i> , 2005 , 72, 016106	2.4	93
70	Network cosmology. <i>Scientific Reports</i> , 2012 , 2, 793	4.9	82
69	Tuning clustering in random networks with arbitrary degree distributions. <i>Physical Review E</i> , 2005 , 72, 036133	2.4	82
68	Clustering in complex networks. I. General formalism. <i>Physical Review E</i> , 2006 , 74, 056114	2.4	81
67	Langevin approach for the dynamics of the contact process on annealed scale-free networks. <i>Physical Review E</i> , 2009 , 79, 036110	2.4	80
66	Properties of resonant activation phenomena. <i>Physical Review E</i> , 1998 , 57, 3990-4002	2.4	78
65	Measuring the evolution of contemporary western popular music. <i>Scientific Reports</i> , 2012 , 2, 521	4.9	75
64	Hidden geometric correlations in real multiplex networks. <i>Nature Physics</i> , 2016 , 12, 1076-1081	16.2	73
63	Clustering in complex networks. II. Percolation properties. <i>Physical Review E</i> , 2006 , 74, 056115	2.4	68
62	Curvature and temperature of complex networks. <i>Physical Review E</i> , 2009 , 80, 035101	2.4	66
61	Diffusion-annihilation processes in complex networks. <i>Physical Review E</i> , 2005 , 71, 056104	2.4	65
60	Navigating ultrasmall worlds in ultrashort time. <i>Physical Review Letters</i> , 2009 , 102, 058701	7.4	64
59	Topology and correlations in structured scale-free networks. <i>Physical Review E</i> , 2003 , 67, 046111	2.4	61
58	Simulating non-Markovian stochastic processes. <i>Physical Review E</i> , 2014 , 90, 042108	2.4	59
57	Uncovering the hidden geometry behind metabolic networks. <i>Molecular BioSystems</i> , 2012 , 8, 843-50		56
56	Long-Tailed Trapping Times and Lévy Flights in a Self-Organized Critical Granular System. <i>Physical Review Letters</i> , 1997 , 78, 4950-4953	7.4	52
55	Correlations in weighted networks. <i>Physical Review E</i> , 2006 , 74, 055101	2.4	51

54	Emergence of soft communities from geometric preferential attachment. <i>Scientific Reports</i> , 2015 , 5, 9421	4.9	50
53	Greedy Forwarding in Dynamic Scale-Free Networks Embedded in Hyperbolic Metric Spaces 2010 ,		48
52	Double Percolation Phase Transition in Clustered Complex Networks. <i>Physical Review X</i> , 2014 , 4,	9.1	47
51	Deciphering the global organization of clustering in real complex networks. <i>Scientific Reports</i> , 2013 , 3, 2517	4.9	46
50	The geometric nature of weights in real complex networks. <i>Nature Communications</i> , 2017 , 8, 14103	17.4	44
49	Approximating PageRank from In-Degree. <i>Lecture Notes in Computer Science</i> , 2006 , 59-71	0.9	44
48	The hidden hyperbolic geometry of international trade: World Trade Atlas 1870-2013. <i>Scientific Reports</i> , 2016 , 6, 33441	4.9	36
47	Decoding the structure of the WWW. <i>ACM Transactions on the Web</i> , 2007 , 1, 10	3.2	36
46	Generalization of the persistent random walk to dimensions greater than 1. <i>Physical Review E</i> , 1998 , 58, 6992-6998	2.4	33
45	Equivalence between Non-Markovian and Markovian Dynamics in Epidemic Spreading Processes. <i>Physical Review Letters</i> , 2017 , 118, 128301	7.4	31
44	Multiscale unfolding of real networks by geometric renormalization. <i>Nature Physics</i> , 2018 , 14, 583-589	16.2	27
43	Percolation in self-similar networks. <i>Physical Review Letters</i> , 2011 , 106, 048701	7.4	27
42	Weighted Configuration Model. <i>AIP Conference Proceedings</i> , 2005 ,	0	27
41	Competition and adaptation in an Internet evolution model. <i>Physical Review Letters</i> , 2005 , 94, 038701	7.4	27
40	Residence time densities for non-Markovian systems. (I). The two-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 282, 475-485	3.3	27
39	Geometric Correlations Mitigate the Extreme Vulnerability of Multiplex Networks against Targeted Attacks. <i>Physical Review Letters</i> , 2017 , 118, 218301	7.4	26
38	Persistent random walk model for transport through thin slabs. <i>Physical Review E</i> , 1999 , 59, 6517-26	2.4	23
37	Network geometry. <i>Nature Reviews Physics</i> , 2021 , 3, 114-135	23.6	22

36	Greedy forwarding in scale-free networks embedded in hyperbolic metric spaces. <i>Performance Evaluation Review</i> , 2009 , 37, 15-17	0.4	20
35	Clustering of random scale-free networks. <i>Physical Review E</i> , 2012 , 86, 026120	2.4	19
34	On Local Estimations of PageRank: A Mean Field Approach. <i>Internet Mathematics</i> , 2007 , 4, 245-266	0	19
33	Mercator: uncovering faithful hyperbolic embeddings of complex networks. <i>New Journal of Physics</i> , 2019 , 21, 123033	2.9	19
32	Evolution of the Digital Society Reveals Balance between Viral and Mass Media Influence. <i>Physical Review X</i> , 2014 , 4,	9.1	14
31	Competition between global and local online social networks. <i>Scientific Reports</i> , 2016 , 6, 25116	4.9	13
30	Modeling the Internet. <i>European Physical Journal B</i> , 2006 , 50, 249-254	1.2	13
29	Correlations in Complex Networks. <i>Complex Systems and Interdisciplinary Science</i> , 2007 , 35-65		11
28	Digital Ecology: Coexistence and Domination among Interacting Networks. <i>Scientific Reports</i> , 2015 , 5, 10268	4.9	10
27	Soft Communities in Similarity Space. <i>Journal of Statistical Physics</i> , 2018 , 173, 775-782	1.5	9
26	The interconnected wealth of nations: Shock propagation on global trade-investment multiplex networks. <i>Scientific Reports</i> , 2019 , 9, 13079	4.9	8
25	Lifespan method as a tool to study criticality in absorbing-state phase transitions. <i>Physical Review E</i> , 2015 , 91, 052117	2.4	8
24	Residence time densities for non-Markovian systems. (II). The N-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 282, 486-494	3.3	8
23	Small worlds and clustering in spatial networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
22	Follow the leader: Herding behavior in heterogeneous populations. <i>Physical Review E</i> , 2015 , 91, 052804	2.4	7
21	Regulation of burstiness by network-driven activation. <i>Scientific Reports</i> , 2015 , 5, 9714	4.9	7
20	Escaping the avalanche collapse in self-similar multiplexes. <i>New Journal of Physics</i> , 2015 , 17, 053033	2.9	7
19	Complex architecture of primes and natural numbers. <i>Physical Review E</i> , 2014 , 90, 022806	2.4	7

18	Evaluation of rate constants for conformational transitions using single-molecule fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2001 , 336, 321-324	2.5	7
17	Memory-induced complex contagion in epidemic spreading. <i>New Journal of Physics</i> , 2019 , 21, 033034	2.9	5
16	Dynamical properties of the herding voter model with and without noise. <i>Physical Review E</i> , 2017 , 96, 012310	2.4	5
15	Conditional dynamics driving financial markets. <i>European Physical Journal B</i> , 2004 , 40, 347-352	1.2	5
14	Occupancy of a single site by many random walkers. <i>Physical Review E</i> , 2000 , 62, 3250-6	2.4	5
13	Rate Constants for Slow Conformational Transitions and Their Sampling Errors Using Single-Molecule Fluorescence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4898-4901	2.8	5
12	Cosmological networks. <i>New Journal of Physics</i> , 2014 , 16, 093031	2.9	4
11	Scaling up real networks by geometric branching growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
10	The asymptotic form of the probability density of sojourn times in randomly changing multistate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 284, 13-22	3.3	3
9	Continued fraction solution for the radiative transfer equation in three dimensions. <i>Physical Review E</i> , 2000 , 61, 6248-54	2.4	3
8	Rate Constants from Uncorrelated Single-Molecule Data. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6246-6250	3.4	3
7	Quantifying Human Engagement into Playful Activities. <i>Scientific Reports</i> , 2020 , 10, 4145	4.9	2
6	Reply to Slater: Extracting the backbone of multiscale networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, E67-E67	11.5	2
5	A model for noise effects on fibre tract trajectories in diffusion tensor imaging: theory and simulations. <i>New Journal of Physics</i> , 2005 , 7, 24-24	2.9	2
4	A discrete formulation of the theory of sojourn times in a two-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 289, 307-320	3.3	2
3	Isotropization time for non-Markovian CTRWs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 230, 149-155	3.3	2
2	Reaction-diffusion Processes in Scale-free Networks. <i>Bolyai Society Mathematical Studies</i> , 2008 , 203-237	0.4	2
1	M. Franceschetti, R. Meester: Random Networks for Communication. From Statistical Physics to Information Systems. <i>Journal of Statistical Physics</i> , 2009 , 135, 585-586	1.5	0

