

# Marian Boguna

## 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.

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	Scaling up real networks by geometric branching growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
88	Network geometry. <i>Nature Reviews Physics</i> , <b>2021</b> , 3, 114-135	23.6	22
87	Quantifying Human Engagement into Playful Activities. <i>Scientific Reports</i> , <b>2020</b> , 10, 4145	4.9	2
86	Small worlds and clustering in spatial networks. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	8
85	The interconnected wealth of nations: Shock propagation on global trade-investment multiplex networks. <i>Scientific Reports</i> , <b>2019</b> , 9, 13079	4.9	8
84	Memory-induced complex contagion in epidemic spreading. <i>New Journal of Physics</i> , <b>2019</b> , 21, 033034	2.9	5
83	Mercator: uncovering faithful hyperbolic embeddings of complex networks. <i>New Journal of Physics</i> , <b>2019</b> , 21, 123033	2.9	19
82	Multiscale unfolding of real networks by geometric renormalization. <i>Nature Physics</i> , <b>2018</b> , 14, 583-589	16.2	27
81	Soft Communities in Similarity Space. <i>Journal of Statistical Physics</i> , <b>2018</b> , 173, 775-782	1.5	9
80	The geometric nature of weights in real complex networks. <i>Nature Communications</i> , <b>2017</b> , 8, 14103	17.4	44
79	Equivalence between Non-Markovian and Markovian Dynamics in Epidemic Spreading Processes. <i>Physical Review Letters</i> , <b>2017</b> , 118, 128301	7.4	31
78	Geometric Correlations Mitigate the Extreme Vulnerability of Multiplex Networks against Targeted Attacks. <i>Physical Review Letters</i> , <b>2017</b> , 118, 218301	7.4	26
77	Dynamical properties of the herding voter model with and without noise. <i>Physical Review E</i> , <b>2017</b> , 96, 012310	2.4	5
76	Competition between global and local online social networks. <i>Scientific Reports</i> , <b>2016</b> , 6, 25116	4.9	13
75	The hidden hyperbolic geometry of international trade: World Trade Atlas 1870-2013. <i>Scientific Reports</i> , <b>2016</b> , 6, 33441	4.9	36
74	Hidden geometric correlations in real multiplex networks. <i>Nature Physics</i> , <b>2016</b> , 12, 1076-1081	16.2	73
73	Follow the leader: Herding behavior in heterogeneous populations. <i>Physical Review E</i> , <b>2015</b> , 91, 052804	2.4	7

72	Regulation of burstiness by network-driven activation. <i>Scientific Reports</i> , <b>2015</b> , 5, 9714	4.9	7
71	Escaping the avalanche collapse in self-similar multiplexes. <i>New Journal of Physics</i> , <b>2015</b> , 17, 053033	2.9	7
70	Emergence of soft communities from geometric preferential attachment. <i>Scientific Reports</i> , <b>2015</b> , 5, 9421	4.9	50
69	Quantifying randomness in real networks. <i>Nature Communications</i> , <b>2015</b> , 6, 8627	17.4	98
68	Lifespan method as a tool to study criticality in absorbing-state phase transitions. <i>Physical Review E</i> , <b>2015</b> , 91, 052117	2.4	8
67	Digital Ecology: Coexistence and Domination among Interacting Networks. <i>Scientific Reports</i> , <b>2015</b> , 5, 10268	4.9	10
66	Simulating non-Markovian stochastic processes. <i>Physical Review E</i> , <b>2014</b> , 90, 042108	2.4	59
65	Complex architecture of primes and natural numbers. <i>Physical Review E</i> , <b>2014</b> , 90, 022806	2.4	7
64	Cosmological networks. <i>New Journal of Physics</i> , <b>2014</b> , 16, 093031	2.9	4
63	Double Percolation Phase Transition in Clustered Complex Networks. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	47
62	Evolution of the Digital Society Reveals Balance between Viral and Mass Media Influence. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	14
61	Nature of the epidemic threshold for the susceptible-infected-susceptible dynamics in networks. <i>Physical Review Letters</i> , <b>2013</b> , 111, 068701	7.4	182
60	Deciphering the global organization of clustering in real complex networks. <i>Scientific Reports</i> , <b>2013</b> , 3, 2517	4.9	46
59	Network cosmology. <i>Scientific Reports</i> , <b>2012</b> , 2, 793	4.9	82
58	Popularity versus similarity in growing networks. <i>Nature</i> , <b>2012</b> , 489, 537-40	50.4	323
57	Measuring the evolution of contemporary western popular music. <i>Scientific Reports</i> , <b>2012</b> , 2, 521	4.9	75
56	Epidemic spreading on interconnected networks. <i>Physical Review E</i> , <b>2012</b> , 86, 026106	2.4	233
55	Uncovering the hidden geometry behind metabolic networks. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 843-50		56

54	Clustering of random scale-free networks. <i>Physical Review E</i> , <b>2012</b> , 86, 026120	2.4	19
53	Percolation in self-similar networks. <i>Physical Review Letters</i> , <b>2011</b> , 106, 048701	7.4	27
52	Hyperbolic geometry of complex networks. <i>Physical Review E</i> , <b>2010</b> , 82, 036106	2.4	402
51	Sustaining the Internet with hyperbolic mapping. <i>Nature Communications</i> , <b>2010</b> , 1, 62	17.4	209
50	Greedy Forwarding in Dynamic Scale-Free Networks Embedded in Hyperbolic Metric Spaces <b>2010</b> ,		48
49	Langevin approach for the dynamics of the contact process on annealed scale-free networks. <i>Physical Review E</i> , <b>2009</b> , 79, 036110	2.4	80
48	Curvature and temperature of complex networks. <i>Physical Review E</i> , <b>2009</b> , 80, 035101	2.4	66
47	Navigating ultrasmall worlds in ultrashort time. <i>Physical Review Letters</i> , <b>2009</b> , 102, 058701	7.4	64
46	Extracting the multiscale backbone of complex weighted networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 6483-8	11.5	416
45	Reply to Slater: Extracting the backbone of multiscale networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, E67-E67	11.5	2
44	M. Franceschetti, R. Meester: Random Networks for Communication. From Statistical Physics to Information Systems. <i>Journal of Statistical Physics</i> , <b>2009</b> , 135, 585-586	1.5	0
43	Navigability of complex networks. <i>Nature Physics</i> , <b>2009</b> , 5, 74-80	16.2	277
42	Greedy forwarding in scale-free networks embedded in hyperbolic metric spaces. <i>Performance Evaluation Review</i> , <b>2009</b> , 37, 15-17	0.4	20
41	Self-similarity of complex networks and hidden metric spaces. <i>Physical Review Letters</i> , <b>2008</b> , 100, 078701	7.4	157
40	Reaction-diffusion Processes in Scale-free Networks. <i>Bolyai Society Mathematical Studies</i> , <b>2008</b> , 203-237	0.4	2
39	Patterns of dominant flows in the world trade web. <i>Journal of Economic Interaction and Coordination</i> , <b>2007</b> , 2, 111-124	1.1	126
38	On Local Estimations of PageRank: A Mean Field Approach. <i>Internet Mathematics</i> , <b>2007</b> , 4, 245-266	0	19
37	Decoding the structure of the WWW. <i>ACM Transactions on the Web</i> , <b>2007</b> , 1, 10	3.2	36

36	Correlations in Complex Networks. <i>Complex Systems and Interdisciplinary Science</i> , <b>2007</b> , 35-65		11
35	Clustering in complex networks. I. General formalism. <i>Physical Review E</i> , <b>2006</b> , 74, 056114	2.4	81
34	Percolation and epidemic thresholds in clustered networks. <i>Physical Review Letters</i> , <b>2006</b> , 97, 088701	7.4	142
33	Correlations in weighted networks. <i>Physical Review E</i> , <b>2006</b> , 74, 055101	2.4	51
32	Clustering in complex networks. II. Percolation properties. <i>Physical Review E</i> , <b>2006</b> , 74, 056115	2.4	68
31	Modeling the Internet. <i>European Physical Journal B</i> , <b>2006</b> , 50, 249-254	1.2	13
30	Approximating PageRank from In-Degree. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 59-71	0.9	44
29	Generalized percolation in random directed networks. <i>Physical Review E</i> , <b>2005</b> , 72, 016106	2.4	93
28	Generation of uncorrelated random scale-free networks. <i>Physical Review E</i> , <b>2005</b> , 71, 027103	2.4	506
27	A model for noise effects on fibre tract trajectories in diffusion tensor imaging: theory and simulations. <i>New Journal of Physics</i> , <b>2005</b> , 7, 24-24	2.9	2
26	Weighted Configuration Model. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	27
25	Diffusion-annihilation processes in complex networks. <i>Physical Review E</i> , <b>2005</b> , 71, 056104	2.4	65
24	Competition and adaptation in an Internet evolution model. <i>Physical Review Letters</i> , <b>2005</b> , 94, 038701	7.4	27
23	Tuning clustering in random networks with arbitrary degree distributions. <i>Physical Review E</i> , <b>2005</b> , 72, 036133	2.4	82
22	Cut-offs and finite size effects in scale-free networks. <i>European Physical Journal B</i> , <b>2004</b> , 38, 205-209	1.2	244
21	Conditional dynamics driving financial markets. <i>European Physical Journal B</i> , <b>2004</b> , 40, 347-352	1.2	5
20	Models of social networks based on social distance attachment. <i>Physical Review E</i> , <b>2004</b> , 70, 056122	2.4	441
19	Class of correlated random networks with hidden variables. <i>Physical Review E</i> , <b>2003</b> , 68, 036112	2.4	272

18	Topology and correlations in structured scale-free networks. <i>Physical Review E</i> , <b>2003</b> , 67, 046111	2.4	61
17	Absence of epidemic threshold in scale-free networks with degree correlations. <i>Physical Review Letters</i> , <b>2003</b> , 90, 028701	7.4	379
16	Topology of the world trade web. <i>Physical Review E</i> , <b>2003</b> , 68, 015101	2.4	348
15	Epidemic spreading in correlated complex networks. <i>Physical Review E</i> , <b>2002</b> , 66, 047104	2.4	336
14	A discrete formulation of the theory of sojourn times in a two-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2001</b> , 289, 307-320	3.3	2
13	Evaluation of rate constants for conformational transitions using single-molecule fluorescence spectroscopy. <i>Chemical Physics Letters</i> , <b>2001</b> , 336, 321-324	2.5	7
12	Rate Constants for Slow Conformational Transitions and Their Sampling Errors Using Single-Molecule Fluorescence Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 4898-4901	2.8	5
11	Rate Constants from Uncorrelated Single-Molecule Data. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 6246-6250	5.4	3
10	Residence time densities for non-Markovian systems. (I). The two-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2000</b> , 282, 475-485	3.3	27
9	Residence time densities for non-Markovian systems. (II). The N-state system. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2000</b> , 282, 486-494	3.3	8
8	The asymptotic form of the probability density of sojourn times in randomly changing multistate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2000</b> , 284, 13-22	3.3	3
7	Continued fraction solution for the radiative transfer equation in three dimensions. <i>Physical Review E</i> , <b>2000</b> , 61, 6248-54	2.4	3
6	Occupancy of a single site by many random walkers. <i>Physical Review E</i> , <b>2000</b> , 62, 3250-6	2.4	5
5	Persistent random walk model for transport through thin slabs. <i>Physical Review E</i> , <b>1999</b> , 59, 6517-26	2.4	23
4	Properties of resonant activation phenomena. <i>Physical Review E</i> , <b>1998</b> , 57, 3990-4002	2.4	78
3	Generalization of the persistent random walk to dimensions greater than 1. <i>Physical Review E</i> , <b>1998</b> , 58, 6992-6998	2.4	33
2	Long-Tailed Trapping Times and Lévy Flights in a Self-Organized Critical Granular System. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4950-4953	7.4	52
1	Isotropization time for non-Markovian CTRWs. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1996</b> , 230, 149-155	3.3	2

