

Santo Fortunato

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.

104
papers

22,426
citations

45
h-index

111
g-index

111
ext. papers

26,398
ext. citations

5.8
avg, IF

7.96
L-index

#	Paper	IF	Citations
104	Community detection in graphs. <i>Physics Reports</i> , 2010 , 486, 75-174	27.7	6320
103	Statistical physics of social dynamics. <i>Reviews of Modern Physics</i> , 2009 , 81, 591-646	40.5	2482
102	Resolution limit in community detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 36-41	11.5	1807
101	Benchmark graphs for testing community detection algorithms. <i>Physical Review E</i> , 2008 , 78, 046110	2.4	1704
100	Community detection algorithms: a comparative analysis. <i>Physical Review E</i> , 2009 , 80, 056117	2.4	1203
99	Detecting the overlapping and hierarchical community structure in complex networks. <i>New Journal of Physics</i> , 2009 , 11, 033015	2.9	1077
98	Community detection in networks: A user guide. <i>Physics Reports</i> , 2016 , 659, 1-44	27.7	931
97	Finding statistically significant communities in networks. <i>PLoS ONE</i> , 2011 , 6, e18961	3.7	596
96	Benchmarks for testing community detection algorithms on directed and weighted graphs with overlapping communities. <i>Physical Review E</i> , 2009 , 80, 016118	2.4	581
95	Universality of citation distributions: toward an objective measure of scientific impact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17268-72	11.5	498
94	Consensus clustering in complex networks. <i>Scientific Reports</i> , 2012 , 2, 336	4.9	427
93	Science of science. <i>Science</i> , 2018 , 359,	33.3	373
92	Limits of modularity maximization in community detection. <i>Physical Review E</i> , 2011 , 84, 066122	2.4	250
91	Diffusion of scientific credits and the ranking of scientists. <i>Physical Review E</i> , 2009 , 80, 056103	2.4	209
90	Method to find community structures based on information centrality. <i>Physical Review E</i> , 2004 , 70, 056104	2.4	179
89	Characterizing and modeling the dynamics of online popularity. <i>Physical Review Letters</i> , 2010 , 105, 158701	9.1	160
88	Characterizing the community structure of complex networks. <i>PLoS ONE</i> , 2010 , 5, e11976	3.7	157

87	Reputation and impact in academic careers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15316-21	11.5	146
86	Explosive percolation in scale-free networks. <i>Physical Review Letters</i> , 2009 , 103, 168701	7.4	141
85	World citation and collaboration networks: uncovering the role of geography in science. <i>Scientific Reports</i> , 2012 , 2, 902	4.9	140
84	Community detection in networks: Structural communities versus ground truth. <i>Physical Review E</i> , 2014 , 90, 062805	2.4	126
83	Scaling and universality in proportional elections. <i>Physical Review Letters</i> , 2007 , 99, 138701	7.4	122
82	Characterizing and modeling citation dynamics. <i>PLoS ONE</i> , 2011 , 6, e24926	3.7	122
81	VECTOR OPINION DYNAMICS IN A BOUNDED CONFIDENCE CONSENSUS MODEL. <i>International Journal of Modern Physics C</i> , 2005 , 16, 1535-1551	1.1	112
80	Triadic closure as a basic generating mechanism of communities in complex networks. <i>Physical Review E</i> , 2014 , 90, 042806	2.4	100
79	Explosive percolation: a numerical analysis. <i>Physical Review E</i> , 2010 , 81, 036110	2.4	99
78	Quantifying randomness in real networks. <i>Nature Communications</i> , 2015 , 6, 8627	17.4	98
77	Scale-free network growth by ranking. <i>Physical Review Letters</i> , 2006 , 96, 218701	7.4	93
76	Assessment of network module identification across complex diseases. <i>Nature Methods</i> , 2019 , 16, 843-852.6	52.6	91
75	Spectral centrality measures in complex networks. <i>Physical Review E</i> , 2008 , 78, 036107	2.4	88
74	How citation boosts promote scientific paradigm shifts and nobel prizes. <i>PLoS ONE</i> , 2011 , 6, e18975	3.7	78
73	Attention decay in science. <i>Journal of Informetrics</i> , 2015 , 9, 734-745	3.1	74
72	On the predictability of future impact in science. <i>Scientific Reports</i> , 2013 , 3, 3052	4.9	74
71	UNIVERSALITY OF THE THRESHOLD FOR COMPLETE CONSENSUS FOR THE OPINION DYNAMICS OF DEFFUANT et al.. <i>International Journal of Modern Physics C</i> , 2004 , 15, 1301-1307	1.1	71
70	Topical interests and the mitigation of search engine bias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12684-9	11.5	69

69	Multiresolution Consensus Clustering in Networks. <i>Scientific Reports</i> , 2018 , 8, 3259	4.9	66
68	Detection of gene communities in multi-networks reveals cancer drivers. <i>Scientific Reports</i> , 2015 , 5, 17386	6.9	66
67	ON THE CONSENSUS THRESHOLD FOR THE OPINION DYNAMICS OF KRAUSE & HEIGSELMANN. <i>International Journal of Modern Physics C</i> , 2005 , 16, 259-270	1.1	65
66	Author Impact Factor: tracking the dynamics of individual scientific impact. <i>Scientific Reports</i> , 2014 , 4, 4880	4.9	62
65	Motif-based communities in complex networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224001	2	61
64	Damage spreading and opinion dynamics on scale-free networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 348, 683-690	3.3	51
63	Complex networks renormalization: flows and fixed points. <i>Physical Review Letters</i> , 2008 , 101, 148701	7.4	50
62	Information filtering in complex weighted networks. <i>Physical Review E</i> , 2011 , 83, 046101	2.4	48
61	Heavy quark free energies and screening in SU(2) gauge theory. <i>Physical Review D</i> , 2003 , 68,	4.9	48
60	Benchmark model to assess community structure in evolving networks. <i>Physical Review E</i> , 2015 , 92, 012805	4.1	45
59	Universality in voting behavior: an empirical analysis. <i>Scientific Reports</i> , 2013 , 3, 1049	4.9	45
58	Approximating PageRank from In-Degree. <i>Lecture Notes in Computer Science</i> , 2006 , 59-71	0.9	44
57	THE SZNAJD CONSENSUS MODEL WITH CONTINUOUS OPINIONS. <i>International Journal of Modern Physics C</i> , 2005 , 16, 17-24	1.1	41
56	Predictions for (J/psi) suppression by parton percolation. <i>European Physical Journal C</i> , 2004 , 32, 547-553	4.2	40
55	Decoding the structure of the WWW. <i>ACM Transactions on the Web</i> , 2007 , 1, 10	3.2	36
54	The memory of science: Inflation, myopia, and the knowledge network. <i>Journal of Informetrics</i> , 2018 , 12, 656-678	3.1	34
53	Citation Networks. <i>Understanding Complex Systems</i> , 2012 , 233-257	0.4	31
52	Polyakov loop percolation and deconfinement in SU(2) gauge theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 475, 311-314	4.2	31

51	THE KRAUSE-BIEGSELMANN CONSENSUS MODEL WITH DISCRETE OPINIONS. <i>International Journal of Modern Physics C</i> , 2004 , 15, 1021-1029	1.1	28
50	Reconfiguration of Cortical Networks in MDD Uncovered by Multiscale Community Detection with fMRI. <i>Cerebral Cortex</i> , 2018 , 28, 1383-1395	5.1	27
49	Network Structure, Metadata, and the Prediction of Missing Nodes and Annotations. <i>Physical Review X</i> , 2016 , 6,	9.1	27
48	Detection of timescales in evolving complex systems. <i>Scientific Reports</i> , 2016 , 6, 39713	4.9	26
47	Resting state network modularity along the prodromal late onset Alzheimer's disease continuum. <i>NeuroImage: Clinical</i> , 2019 , 22, 101687	5.3	25
46	The Hagedorn temperature and partition thermodynamics. <i>European Physical Journal C</i> , 2004 , 34, 361-366	2	25
45	Commentary: The case for caution in predicting scientists' future impact. <i>Physics Today</i> , 2013 , 66, 8-9	0.9	24
44	RANDOM WALKS ON DIRECTED NETWORKS: THE CASE OF PAGERANK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 2343-2353	2	24
43	Site percolation and phase transitions in two dimensions. <i>Physical Review B</i> , 2002 , 66,	3.3	24
42	Methods to account for citation inflation in research evaluation. <i>Research Policy</i> , 2019 , 48, 1855-1865	7.5	23
41	Psychology and morality of political extremists: evidence from Twitter language analysis of alt-right and Antifa. <i>EPJ Data Science</i> , 2019 , 8,	3.4	20
40	Coevolution of Glauber-like Ising dynamics and topology. <i>Physical Review E</i> , 2009 , 80, 056105	2.4	20
39	Renormalization flows in complex networks. <i>Physical Review E</i> , 2009 , 79, 026104	2.4	19
38	On Local Estimations of PageRank: A Mean Field Approach. <i>Internet Mathematics</i> , 2007 , 4, 245-266	0	19
37	A dataset of publication records for Nobel laureates. <i>Scientific Data</i> , 2019 , 6, 33	8.2	18
36	Scientific elite revisited: patterns of productivity, collaboration, authorship and impact. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200135	4.1	17
35	Prizes: Growing time lag threatens Nobels. <i>Nature</i> , 2014 , 508, 186	50.4	17
34	Is the intrinsic disorder of proteins the cause of the scale-free architecture of protein-protein interaction networks?. <i>Proteomics</i> , 2007 , 7, 961-4	4.8	17

33	Weight thresholding on complex networks. <i>Physical Review E</i> , 2018 , 98,	2.4	17
32	Traffic in Social Media II: Modeling Bursty Popularity 2010 ,		15
31	Subsystem organization of axonal connections within and between the right and left cerebral cortex and cerebral nuclei (endbrain). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6910-E6919	11.5	15
30	Improving the performance of algorithms to find communities in networks. <i>Physical Review E</i> , 2014 , 89, 032809	2.4	14
29	Cluster percolation and pseudocritical behaviour in spin models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 509, 189-195	4.2	14
28	Percolation and magnetization in the continuous spin Ising model. <i>Nuclear Physics B</i> , 2000 , 583, 368-378	2.8	14
27	Multiscale community detection in Cytoscape. <i>PLoS Computational Biology</i> , 2020 , 16, e1008239	5	14
26	Explosive percolation in graphs. <i>Journal of Physics: Conference Series</i> , 2011 , 297, 012009	0.3	13
25	Critical droplets and phase transitions in two dimensions. <i>Physical Review B</i> , 2003 , 67,	3.3	13
24	Fast consensus clustering in complex networks. <i>Physical Review E</i> , 2019 , 99, 042301	2.4	11
23	Cluster percolation and critical behaviour in spin models and SU(N) gauge theories. <i>Journal of Physics A</i> , 2003 , 36, 4269-4281		11
22	Percolation and magnetization for generalized continuous spin models. <i>Nuclear Physics B</i> , 2001 , 598, 601-611	2.8	11
21	Computer Simulations of Opinions and their Reactions to Extreme Events 2006 , 233-257		10
20	Number of spanning clusters at the high-dimensional percolation thresholds. <i>Physical Review E</i> , 2004 , 70, 056116	2.4	10
19	Open Community Challenge Reveals Molecular Network Modules with Key Roles in Diseases		10
18	Two-particle-one-hole excitations in the continuum. <i>Physical Review C</i> , 1996 , 54, 3279-3282	2.7	9
17	Physics peeks into the ballot box. <i>Physics Today</i> , 2012 , 65, 74-75	0.9	8
16	Percolation in high dimensions is not understood. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 334, 307-311	3.3	6

15	Euler-Poincaré characteristic and phase transition in the Potts model on Z_2 . <i>Nuclear Physics B</i> , 2002 , 644, 495-508	2.8	6
14	Importance of extremists for the structure of social networks. <i>Physical Review E</i> , 2005 , 71, 056114	2.4	5
13	Eigenvector dynamics under perturbation of modular networks. <i>Physical Review E</i> , 2016 , 93, 062312	2.4	4
12	Network-based model of the growth of termite nests. <i>Physical Review E</i> , 2015 , 92, 062810	2.4	3
11	Reuven Cohen and Shlomo Havlin: Complex Networks. <i>Journal of Statistical Physics</i> , 2011 , 142, 640-641	1.5	3
10	Quality functions in community detection 2007 ,		3
9	A geometrical interpretation of hyperscaling breaking in the Ising model. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003 , 119, 876-878		3
8	Community detection in networks using graph embeddings. <i>Physical Review E</i> , 2021 , 103, 022316	2.4	3
7	Recency predicts bursts in the evolution of author citations. <i>Quantitative Science Studies</i> , 2020 , 1, 1298-1308	3.8	2
6	Methods to Account for Citation Inflation in Research Evaluation. <i>SSRN Electronic Journal</i> , 2018 ,	1	2
5	Adding network structure onto the map of collective behavior. <i>Behavioral and Brain Sciences</i> , 2014 , 37, 82-3	0.9	2
4	Cluster percolation and first order phase transitions in the Potts model. <i>Nuclear Physics B</i> , 2002 , 623, 493-502	2.8	2
3	Attention Decay in Science. <i>SSRN Electronic Journal</i> ,	1	2
2	Detecting Climate Teleconnections With Granger Causality. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094707	4.9	1
1	Science of science. <i>Bibliosfera</i> , 2021 , 25-42	0.4	0