

# Santo Fortunato

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

29,448  
citations

41258

49  
h-index

29081

104  
g-index

111  
all docs

111  
docs citations

111  
times ranked

17328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Community detection in graphs. <i>Physics Reports</i> , 2010, 486, 75-174.	10.3	8,128
2	Statistical physics of social dynamics. <i>Reviews of Modern Physics</i> , 2009, 81, 591-646.	16.4	3,013
3	Resolution limit in community detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 36-41.	3.3	2,263
4	Benchmark graphs for testing community detection algorithms. <i>Physical Review E</i> , 2008, 78, 046110.	0.8	2,182
5	Community detection algorithms: A comparative analysis. <i>Physical Review E</i> , 2009, 80, 056117.	0.8	1,546
6	Detecting the overlapping and hierarchical community structure in complex networks. <i>New Journal of Physics</i> , 2009, 11, 033015.	1.2	1,429
7	Community detection in networks: A user guide. <i>Physics Reports</i> , 2016, 659, 1-44.	10.3	1,426
8	Finding Statistically Significant Communities in Networks. <i>PLoS ONE</i> , 2011, 6, e18961.	1.1	760
9	Benchmarks for testing community detection algorithms on directed and weighted graphs with overlapping communities. <i>Physical Review E</i> , 2009, 80, 016118.	0.8	739
10	Science of science. <i>Science</i> , 2018, 359, .	6.0	701
11	Consensus clustering in complex networks. <i>Scientific Reports</i> , 2012, 2, 336.	1.6	629
12	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, 17268-17272.	3.3	623
13	Limits of modularity maximization in community detection. <i>Physical Review E</i> , 2011, 84, 066122.	0.8	330
14	Diffusion of scientific credits and the ranking of scientists. <i>Physical Review E</i> , 2009, 80, 056103.	0.8	243
15	Method to find community structures based on information centrality. <i>Physical Review E</i> , 2004, 70, 056104.	0.8	230
16	Reputation and impact in academic careers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15316-15321.	3.3	222
17	Assessment of network module identification across complex diseases. <i>Nature Methods</i> , 2019, 16, 843-852.	9.0	213
18	Characterizing the Community Structure of Complex Networks. <i>PLoS ONE</i> , 2010, 5, e11976.	1.1	201

#	ARTICLE	IF	CITATIONS
19	World citation and collaboration networks: uncovering the role of geography in science. Scientific Reports, 2012, 2, 902.	1.6	195
20	Characterizing and Modeling the Dynamics of Online Popularity. Physical Review Letters, 2010, 105, 158701.	2.9	192
21	Community detection in networks: Structural communities versus ground truth. Physical Review E, 2014, 90, 062805.	0.8	157
22	Explosive Percolation in Scale-Free Networks. Physical Review Letters, 2009, 103, 168701.	2.9	156
23	Characterizing and Modeling Citation Dynamics. PLoS ONE, 2011, 6, e24926.	1.1	148
24	VECTOR OPINION DYNAMICS IN A BOUNDED CONFIDENCE CONSENSUS MODEL. International Journal of Modern Physics C, 2005, 16, 1535-1551.	0.8	143
25	Scaling and Universality in Proportional Elections. Physical Review Letters, 2007, 99, 138701.	2.9	139
26	Triadic closure as a basic generating mechanism of communities in complex networks. Physical Review E, 2014, 90, 042806.	0.8	136
27	Quantifying randomness in real networks. Nature Communications, 2015, 6, 8627.	5.8	134
28	Spectral centrality measures in complex networks. Physical Review E, 2008, 78, 036107.	0.8	122
29	Multiresolution Consensus Clustering in Networks. Scientific Reports, 2018, 8, 3259.	1.6	119
30	Explosive percolation: A numerical analysis. Physical Review E, 2010, 81, 036110.	0.8	112
31	Scale-Free Network Growth by Ranking. Physical Review Letters, 2006, 96, 218701.	2.9	109
32	Attention decay in science. Journal of Informetrics, 2015, 9, 734-745.	1.4	101
33	Author Impact Factor: tracking the dynamics of individual scientific impact. Scientific Reports, 2014, 4, 4880.	1.6	99
34	How Citation Boosts Promote Scientific Paradigm Shifts and Nobel Prizes. PLoS ONE, 2011, 6, e18975.	1.1	98
35	Topical interests and the mitigation of search engine bias. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12684-12689.	3.3	95
36	Detection of gene communities in multi-networks reveals cancer drivers. Scientific Reports, 2015, 5, 17386.	1.6	91

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37	On the Predictability of Future Impact in Science. Scientific Reports, 2013, 3, 3052.	1.6	89
38	UNIVERSALITY OF THE THRESHOLD FOR COMPLETE CONSENSUS FOR THE OPINION DYNAMICS OF DEFFUANT et al.. International Journal of Modern Physics C, 2004, 15, 1301-1307.	0.8	88
39	ON THE CONSENSUS THRESHOLD FOR THE OPINION DYNAMICS OF KRAUSE&#x201c;HEGSELMANN. International Journal of Modern Physics C, 2005, 16, 259-270.	0.8	83
40	Approximating PageRank from In-Degree. Lecture Notes in Computer Science, 2006, , 59-71.	1.0	82
41	Motif-based communities in complex networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224001.	0.7	80
42	Community Structure in Graphs. , 2012, , 490-512.		78
43	Damage spreading and opinion dynamics on scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 683-690.	1.2	62
44	Information filtering in complex weighted networks. Physical Review E, 2011, 83, 046101.	0.8	62
45	Complex Networks Renormalization: Flows and Fixed Points. Physical Review Letters, 2008, 101, 148701.	2.9	61
46	Benchmark model to assess community structure in evolving networks. Physical Review E, 2015, 92, 012805.	0.8	60
47	The memory of science: Inflation, myopia, and the knowledge network. Journal of Informetrics, 2018, 12, 656-678.	1.4	59
48	Decoding the structure of the WWW. ACM Transactions on the Web, 2007, 1, 10.	2.0	54
49	Universality in voting behavior: an empirical analysis. Scientific Reports, 2013, 3, 1049.	1.6	53
50	Heavy quark free energies and screening in SU(2) gauge theory. Physical Review D, 2003, 68, .	1.6	52
51	Resting state network modularity along the prodromal late onset Alzheimer's disease continuum. NeuroImage: Clinical, 2019, 22, 101687.	1.4	51
52	Reconfiguration of Cortical Networks in MDD Uncovered by Multiscale Community Detection with fMRI. Cerebral Cortex, 2018, 28, 1383-1395.	1.6	49
53	Methods to account for citation inflation in research evaluation. Research Policy, 2019, 48, 1855-1865.	3.3	49
54	A dataset of publication records for Nobel laureates. Scientific Data, 2019, 6, 33.	2.4	47

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55	THE SZNAJD CONSENSUS MODEL WITH CONTINUOUS OPINIONS. International Journal of Modern Physics C, 2005, 16, 17-24.	0.8	46
56	Scientific elite revisited: patterns of productivity, collaboration, authorship and impact. Journal of the Royal Society Interface, 2020, 17, 20200135.	1.5	43
57	Predictions for $\chi/\psi$ suppression by parton percolation. European Physical Journal C, 2004, 32, 547-553.	1.4	41
58	Polyakov loop percolation and deconfinement in SU(2) gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 475, 311-314.	1.5	38
59	Citation Networks. Understanding Complex Systems, 2012, , 233-257.	0.3	38
60	THE KRAUSE&#x2013;HEGSELMANN CONSENSUS MODEL WITH DISCRETE OPINIONS. International Journal of Modern Physics C, 2004, 15, 1021-1029.	0.8	37
61	Detection of timescales in evolving complex systems. Scientific Reports, 2016, 6, 39713.	1.6	37
62	Network Structure, Metadata, and the Prediction of Missing Nodes and Annotations. Physical Review X, 2016, 6, .	2.8	36
63	Psychology and morality of political extremists: evidence from Twitter language analysis of alt-right and Antifa. EPJ Data Science, 2019, 8, .	1.5	35
64	Multiscale community detection in Cytoscape. PLoS Computational Biology, 2020, 16, e1008239.	1.5	34
65	RANDOM WALKS ON DIRECTED NETWORKS: THE CASE OF PAGERANK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2343-2353.	0.7	32
66	Weight thresholding on complex networks. Physical Review E, 2018, 98, .	0.8	32
67	Growing time lag threatens Nobels. Nature, 2014, 508, 186-186.	13.7	28
68	The Hagedorn temperature and partition thermodynamics. European Physical Journal C, 2004, 34, 361-366.	1.4	27
69	Nobel laureates are almost the same as us. Nature Reviews Physics, 2019, 1, 301-303.	11.9	26
70	Site percolation and phase transitions in two dimensions. Physical Review B, 2002, 66, .	1.1	25
71	Subsystem organization of axonal connections within and between the right and left cerebral cortex and cerebral nuclei (endbrain). Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6910-E6919.	3.3	25
72	Fast consensus clustering in complex networks. Physical Review E, 2019, 99, 042301.	0.8	25

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73	Commentary: The case for caution in predicting scientists's future impact. <i>Physics Today</i> , 2013, 66, 8-9.	0.3	24
74	Community detection in networks using graph embeddings. <i>Physical Review E</i> , 2021, 103, 022316.	0.8	24
75	Coevolution of Glauber-like Ising dynamics and topology. <i>Physical Review E</i> , 2009, 80, 056105.	0.8	23
76	Detecting Climate Teleconnections With Granger Causality. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094707.	1.5	22
77	On Local Estimations of PageRank: A Mean Field Approach. <i>Internet Mathematics</i> , 2007, 4, 245-266.	0.7	21
78	Is the intrinsic disorder of proteins the cause of the scale-free architecture of protein-protein interaction networks?. <i>Proteomics</i> , 2007, 7, 961-964.	1.3	21
79	Renormalization flows in complex networks. <i>Physical Review E</i> , 2009, 79, 026104.	0.8	21
80	Traffic in Social Media II: Modeling Bursty Popularity. , 2010, , .		19
81	Improving the performance of algorithms to find communities in networks. <i>Physical Review E</i> , 2014, 89, 032809.	0.8	19
82	Percolation and magnetization in the continuous spin Ising model. <i>Nuclear Physics B</i> , 2000, 583, 368-378.	0.9	18
83	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.	1.5	17
84	Explosive percolation in graphs. <i>Journal of Physics: Conference Series</i> , 2011, 297, 012009.	0.3	15
85	Number of spanning clusters at the high-dimensional percolation thresholds. <i>Physical Review E</i> , 2004, 70, 056116.	0.8	14
86	Computer Simulations of Opinions and their Reactions to Extreme Events. , 2006, , 233-257.		14
87	Cluster percolation and critical behaviour in spin models and SU(N) gauge theories. <i>Journal of Physics A</i> , 2003, 36, 4269-4281.	1.6	13
88	Critical droplets and phase transitions in two dimensions. <i>Physical Review B</i> , 2003, 67, .	1.1	13
89	Percolation and magnetization for generalized continuous spin models. <i>Nuclear Physics B</i> , 2001, 598, 601-611.	0.9	12
90	Two-particle-one-hole excitations in the continuum. <i>Physical Review C</i> , 1996, 54, 3279-3282.	1.1	9

#	ARTICLE	IF	CITATIONS
91	Euler-Poincaré characteristic and phase transition in the Potts model on. Nuclear Physics B, 2002, 644, 495-508.	0.9	8
92	Percolation in high dimensions is not understood. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 307-311.	1.2	8
93	Physics peeks into the ballot box. Physics Today, 2012, 65, 74-75.	0.3	8
94	Cluster percolation and first order phase transitions in the Potts model. Nuclear Physics B, 2002, 623, 493-502.	0.9	6
95	Importance of extremists for the structure of social networks. Physical Review E, 2005, 71, 056114.	0.8	6
96	Quality functions in community detection. , 2007, , .		6
97	Eigenvector dynamics under perturbation of modular networks. Physical Review E, 2016, 93, 062312.	0.8	5
98	Recency predicts bursts in the evolution of author citations. Quantitative Science Studies, 2020, 1, 1298-1308.	1.6	4
99	A geometrical interpretation of hyperscaling breaking in the Ising model. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 876-878.	0.5	3
100	Reuven Cohen and Shlomo Havlin: Complex Networks. Journal of Statistical Physics, 2011, 142, 640-641.	0.5	3
101	Network-based model of the growth of termite nests. Physical Review E, 2015, 92, 062810.	0.8	3
102	Robustness modularity in complex networks. Physical Review E, 2022, 105, .	0.8	3
103	Adding network structure onto the map of collective behavior. Behavioral and Brain Sciences, 2014, 37, 82-83.	0.4	2
104	Methods to Account for Citation Inflation in Research Evaluation. SSRN Electronic Journal, 2018, , .	0.4	2
105	Attention Decay in Science. SSRN Electronic Journal, 0, , .	0.4	2
106	Science of science. Bibliosfera, 2021, , 25-42.	0.0	1