Santo Fortunato

List of Publications by Year in Descending Order

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	Science of science. *Bibliosfera*, **2021**, 25-42	0.4	0
103	Community detection in networks using graph embeddings. *Physical Review E*, **2021**, 103, 022316	2.4	3
102	Detecting Climate Teleconnections With Granger Causality. *Geophysical Research Letters*, **2021**, 48, e2021GL094707	4.9	2
101	Recency predicts bursts in the evolution of author citations. *Quantitative Science Studies*, **2020**, 1, 1298-1308	3.8	2
100	Scientific elite revisited: patterns of productivity, collaboration, authorship and impact. *Journal of the Royal Society Interface*, **2020**, 17, 20200135	4.1	17
99	Multiscale community detection in Cytoscape. *PLoS Computational Biology*, **2020**, 16, e1008239	5	14
98	Assessment of network module identification across complex diseases. *Nature Methods*, **2019**, 16, 843-852	22.6	91
97	Resting state network modularity along the prodromal late onset Alzheimer's disease continuum. *NeuroImage: Clinical*, **2019**, 22, 101687	5.3	25
96	Methods to account for citation inflation in research evaluation. *Research Policy*, **2019**, 48, 1855-1865	7.5	23
95	A dataset of publication records for Nobel laureates. *Scientific Data*, **2019**, 6, 33	8.2	18
94	Fast consensus clustering in complex networks. *Physical Review E*, **2019**, 99, 042301	2.4	11
93	Psychology and morality of political extremists: evidence from Twitter language analysis of alt-right and Antifa. *EPJ Data Science*, **2019**, 8,	3.4	20
92	Science of science. *Science*, **2018**, 359,	33.3	373
91	Reconfiguration of Cortical Networks in MDD Uncovered by Multiscale Community Detection with fMRI. *Cerebral Cortex*, **2018**, 28, 1383-1395	5.1	27
90	The memory of science: Inflation, myopia, and the knowledge network. *Journal of Informetrics*, **2018**, 12, 656-678	3.1	34
89	Methods to Account for Citation Inflation in Research Evaluation. *SSRN Electronic Journal*, **2018**,	1	2
88	Multiresolution Consensus Clustering in Networks. *Scientific Reports*, **2018**, 8, 3259	4.9	66

87	Weight thresholding on complex networks. *Physical Review E*, **2018**, 98,	2.4	17
86	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	11.5	15
85	Eigenvector dynamics under perturbation of modular networks. *Physical Review E*, **2016**, 93, 062312	2.4	4
84	Network Structure, Metadata, and the Prediction of Missing Nodes and Annotations. *Physical Review X*, **2016**, 6,	9.1	27
83	Detection of timescales in evolving complex systems. *Scientific Reports*, **2016**, 6, 39713	4.9	26
82	Community detection in networks: A user guide. *Physics Reports*, **2016**, 659, 1-44	27.7	931
81	Quantifying randomness in real networks. *Nature Communications*, **2015**, 6, 8627	17.4	98
80	Benchmark model to assess community structure in evolving networks. *Physical Review E*, **2015**, 92, 012805	2.4	45
79	Network-based model of the growth of termite nests. *Physical Review E*, **2015**, 92, 062810	2.4	3
78	Detection of gene communities in multi-networks reveals cancer drivers. *Scientific Reports*, **2015**, 5, 17386	4.9	66
77	Attention decay in science. *Journal of Informetrics*, **2015**, 9, 734-745	3.1	74
76	Prizes: Growing time lag threatens Nobels. *Nature*, **2014**, 508, 186	50.4	17
75	Triadic closure as a basic generating mechanism of communities in complex networks. *Physical Review E*, **2014**, 90, 042806	2.4	100
74	Reputation and impact in academic careers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15316-21	11.5	146
73	Author Impact Factor: tracking the dynamics of individual scientific impact. *Scientific Reports*, **2014**, 4, 4880	4.9	62
72	Community detection in networks: Structural communities versus ground truth. *Physical Review E*, **2014**, 90, 062805	2.4	126
71	Improving the performance of algorithms to find communities in networks. *Physical Review E*, **2014**, 89, 032809	2.4	14
70	Adding network structure onto the map of collective behavior. *Behavioral and Brain Sciences*, **2014**, 37, 82-3	0.9	2

69	Commentary: The case for caution in predicting scientists' future impact. *Physics Today*, **2013**, 66, 8-9	0.9	24
68	On the predictability of future impact in science. *Scientific Reports*, **2013**, 3, 3052	4.9	74
67	Universality in voting behavior: an empirical analysis. *Scientific Reports*, **2013**, 3, 1049	4.9	45
66	Citation Networks. *Understanding Complex Systems*, **2012**, 233-257	0.4	31
65	World citation and collaboration networks: uncovering the role of geography in science. *Scientific Reports*, **2012**, 2, 902	4.9	140
64	Consensus clustering in complex networks. *Scientific Reports*, **2012**, 2, 336	4.9	427
63	Physics peeks into the ballot box. *Physics Today*, **2012**, 65, 74-75	0.9	8
62	Finding statistically significant communities in networks. *PLoS ONE*, **2011**, 6, e18961	3.7	596
61	Reuven Cohen and Shlomo Havlin: Complex Networks. *Journal of Statistical Physics*, **2011**, 142, 640-641	1.5	3
60	Limits of modularity maximization in community detection. *Physical Review E*, **2011**, 84, 066122	2.4	250
59	Explosive percolation in graphs. *Journal of Physics: Conference Series*, **2011**, 297, 012009	0.3	13
58	Information filtering in complex weighted networks. *Physical Review E*, **2011**, 83, 046101	2.4	48
57	How citation boosts promote scientific paradigm shifts and nobel prizes. *PLoS ONE*, **2011**, 6, e18975	3.7	78
56	Characterizing and modeling citation dynamics. *PLoS ONE*, **2011**, 6, e24926	3.7	122
55	Characterizing the community structure of complex networks. *PLoS ONE*, **2010**, 5, e11976	3.7	157
54	Characterizing and modeling the dynamics of online popularity. *Physical Review Letters*, **2010**, 105, 158701	7.4	160
53	Explosive percolation: a numerical analysis. *Physical Review E*, **2010**, 81, 036110	2.4	99
52	Traffic in Social Media II: Modeling Bursty Popularity **2010**,		15

51	Community detection in graphs. *Physics Reports*, **2010**, 486, 75-174	27.7	6320
50	Renormalization flows in complex networks. *Physical Review E*, **2009**, 79, 026104	2.4	19
49	Coevolution of Glauber-like Ising dynamics and topology. *Physical Review E*, **2009**, 80, 056105	2.4	20
48	Diffusion of scientific credits and the ranking of scientists. *Physical Review E*, **2009**, 80, 056103	2.4	209
47	Statistical physics of social dynamics. *Reviews of Modern Physics*, **2009**, 81, 591-646	40.5	2482
46	Community detection algorithms: a comparative analysis. *Physical Review E*, **2009**, 80, 056117	2.4	1203
45	Explosive percolation in scale-free networks. *Physical Review Letters*, **2009**, 103, 168701	7.4	141
44	Benchmarks for testing community detection algorithms on directed and weighted graphs with overlapping communities. *Physical Review E*, **2009**, 80, 016118	2.4	581
43	Detecting the overlapping and hierarchical community structure in complex networks. *New Journal of Physics*, **2009**, 11, 033015	2.9	1077
42	Benchmark graphs for testing community detection algorithms. *Physical Review E*, **2008**, 78, 046110	2.4	1704
41	Spectral centrality measures in complex networks. *Physical Review E*, **2008**, 78, 036107	2.4	88
40	Universality of citation distributions: toward an objective measure of scientific impact. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17268-72	11.5	498
39	Motif-based communities in complex networks. *Journal of Physics A: Mathematical and Theoretical*, **2008**, 41, 224001	2	61
38	Complex networks renormalization: flows and fixed points. *Physical Review Letters*, **2008**, 101, 148701	7.4	50
37	Is the intrinsic disorder of proteins the cause of the scale-free architecture of protein-protein interaction networks?. *Proteomics*, **2007**, 7, 961-4	4.8	17
36	Scaling and universality in proportional elections. *Physical Review Letters*, **2007**, 99, 138701	7.4	122
35	On Local Estimations of PageRank: A Mean Field Approach. *Internet Mathematics*, **2007**, 4, 245-266	0	19
34	RANDOM WALKS ON DIRECTED NETWORKS: THE CASE OF PAGERANK. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2007**, 17, 2343-2353	2	24

33	Resolution limit in community detection. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 36-41	11.5	1807
32	Decoding the structure of the WWW. *ACM Transactions on the Web*, **2007**, 1, 10	3.2	36
31	Quality functions in community detection **2007**,		3
30	Computer Simulations of Opinions and their Reactions to Extreme Events **2006**, 233-257		10
29	Topical interests and the mitigation of search engine bias. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12684-9	11.5	69
28	Scale-free network growth by ranking. *Physical Review Letters*, **2006**, 96, 218701	7.4	93
27	Approximating PageRank from In-Degree. *Lecture Notes in Computer Science*, **2006**, 59-71	0.9	44
26	VECTOR OPINION DYNAMICS IN A BOUNDED CONFIDENCE CONSENSUS MODEL. *International Journal of Modern Physics C*, **2005**, 16, 1535-1551	1.1	112
25	Damage spreading and opinion dynamics on scale-free networks. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 348, 683-690	3.3	51
24	Importance of extremists for the structure of social networks. *Physical Review E*, **2005**, 71, 056114	2.4	5
23	ON THE CONSENSUS THRESHOLD FOR THE OPINION DYNAMICS OF KRAUSE□HEGSELMANN. *International Journal of Modern Physics C*, **2005**, 16, 259-270	1.1	65
22	THE SZNAJD CONSENSUS MODEL WITH CONTINUOUS OPINIONS. *International Journal of Modern Physics C*, **2005**, 16, 17-24	1.1	41
21	Method to find community structures based on information centrality. *Physical Review E*, **2004**, 70, 056104	2.4	179
20	Number of spanning clusters at the high-dimensional percolation thresholds. *Physical Review E*, **2004**, 70, 056116	2.4	10
19	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	1.1	71
18	THE KRAUSE□HEGSELMANN CONSENSUS MODEL WITH DISCRETE OPINIONS. *International Journal of Modern Physics C*, **2004**, 15, 1021-1029	1.1	28
17	Predictions for (J/psi) suppression by parton percolation. *European Physical Journal C*, **2004**, 32, 547-553	4.2	40
16	The Hagedorn temperature and partition thermodynamics. *European Physical Journal C*, **2004**, 34, 361-366	4.2	25

15	Percolation in high dimensions is not understood. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 334, 307-311	3.3	6
14	Cluster percolation and critical behaviour in spin models andSU(N) gauge theories. *Journal of Physics A*, **2003**, 36, 4269-4281		11
13	A geometrical interpretation of hyperscaling breaking in the Ising model. *Nuclear Physics, Section B, Proceedings Supplements*, **2003**, 119, 876-878		3
12	Critical droplets and phase transitions in two dimensions. *Physical Review B*, **2003**, 67,	3.3	13
11	Heavy quark free energies and screening in SU(2) gauge theory. *Physical Review D*, **2003**, 68,	4.9	48
10	Site percolation and phase transitions in two dimensions. *Physical Review B*, **2002**, 66,	3.3	24
9	Cluster percolation and first order phase transitions in the Potts model. *Nuclear Physics B*, **2002**, 623, 493-502	2.8	2
8	Euler-Poincaré characteristic and phase transition in the Potts model on Z2. *Nuclear Physics B*, **2002**, 644, 495-508	2.8	6
7	Cluster percolation and pseudocritical behaviour in spin models. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2001**, 509, 189-195	4.2	14
6	Percolation and magnetization for generalized continuous spin models. *Nuclear Physics B*, **2001**, 598, 601-611	2.8	11
5	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	4.2	31
4	Percolation and magnetization in the continuous spin Ising model. *Nuclear Physics B*, **2000**, 583, 368-378	2.8	14
3	Two-particle-one-hole excitations in the continuum. *Physical Review C*, **1996**, 54, 3279-3282	2.7	9
2	Attention Decay in Science. *SSRN Electronic Journal*,	1	2
1	Open Community Challenge Reveals Molecular Network Modules with Key Roles in Diseases		10