

Sergey Dorogovtsev

List of Publications by Year in descending order

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101
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40979

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103
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103
docs citations

103
times ranked

5182
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden transition in multiplex networks. Scientific Reports, 2022, 12, 3973.	3.3	1
2	Effect of Initial Configuration of Weights on Training and Function of Artificial Neural Networks. Mathematics, 2021, 9, 2246.	2.2	7
3	Approximating nonbacktracking centrality and localization phenomena in large networks. Physical Review E, 2021, 104, 054306.	2.1	3
4	Exotic critical behavior of weak multiplex percolation. Physical Review E, 2020, 102, 032301.	2.1	6
5	Choosing among alternative histories of a tree. Physical Review E, 2020, 102, 032304.	2.1	1
6	Filtering Statistics on Networks. Entropy, 2020, 22, 1149.	2.2	0
7	Complex Distributions Emerging in Filtering and Compression. Physical Review X, 2020, 10, .	8.9	1
8	Generalization of core percolation on complex networks. Physical Review E, 2019, 99, 022312.	2.1	13
9	Finding the Optimal Nets for Self-Folding Kirigami. Physical Review Letters, 2018, 120, 188001.	7.8	9
10	Complex network view of evolving manifolds. Physical Review E, 2018, 97, 032316.	2.1	17
11	Mapping the Structure of Directed Networks: Beyond the Bow-Tie Diagram. Physical Review Letters, 2017, 118, 078301.	7.8	21
12	Nonbacktracking expansion of finite graphs. Physical Review E, 2017, 95, 042322.	2.1	9
13	Metastable localization of diseases in complex networks. Physical Review E, 2016, 94, 062305.	2.1	13
14	Cycles and clustering in multiplex networks. Physical Review E, 2016, 94, 062308.	2.1	7
15	Message passing theory for percolation models on multiplex networks with link overlap. Physical Review E, 2016, 94, 032301.	2.1	52
16	Scale-free networks with exponent one. Physical Review E, 2016, 94, 022302.	2.1	22
17	Correlated edge overlaps in multiplex networks. Physical Review E, 2016, 94, 012303.	2.1	31
18	A Unified Approach to Percolation Processes on Multiplex Networks. Understanding Complex Systems, 2016, , 101-123.	0.6	6

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19	Critical Dynamics of the $\langle k \rangle$ -Core Pruning Process. Physical Review X, 2015, 5, .	8.9	31
20	Mutually connected component of networks of networks with replica nodes. Physical Review E, 2015, 91, 012804.	2.1	32
21	Inverting the Achlioptas rule for explosive percolation. Physical Review E, 2015, 91, 042130.	2.1	8
22	Solution of the explosive percolation quest. II. Infinite-order transition produced by the initial distributions of clusters. Physical Review E, 2015, 91, 032140.	2.1	5
23	Ranking scientists. Nature Physics, 2015, 11, 882-883.	16.7	42
24	Growth Models for Networks. , 2015, , 1-18.		0
25	Avalanches in Multiplex and Interdependent Networks. Understanding Complex Systems, 2014, , 37-52.	0.6	8
26	Solution of the explosive percolation quest: Scaling functions and critical exponents. Physical Review E, 2014, 90, 022145.	2.1	25
27	$\langle k \rangle$ on multiplex networks. Physical Review E, 2014, 90, 032816.		
28	Giant components in directed multiplex networks. Physical Review E, 2014, 90, 052809.	2.1	9
29	Multiple percolation transitions in a configuration model of a network of networks. Physical Review E, 2014, 89, 062814.	2.1	114
30	Weak percolation on multiplex networks. Physical Review E, 2014, 89, 042801.	2.1	53
31	Critical exponents of the explosive percolation transition. Physical Review E, 2014, 89, 042148.	2.1	17
32	Biased imitation in coupled evolutionary games in interdependent networks. Scientific Reports, 2014, 4, 4436.	3.3	80
33	Characteristics of the Explosive Percolation Transition. Springer Proceedings in Mathematics and Statistics, 2014, , 17-24.	0.2	0
34	Kuramoto model with frequency-degree correlations on complex networks. Physical Review E, 2013, 87, .	2.1	88
35	Core organization of directed complex networks. Physical Review E, 2013, 87, .	2.1	12
36	Emergence of scale-free networks from optimization process. Journal of Physics: Conference Series, 2013, 410, 012094.	0.4	0

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37	Localization and Spreading of Diseases in Complex Networks. Physical Review Letters, 2012, 109, 128702.	7.8	243
38	Avalanche Collapse of Interdependent Networks. Physical Review Letters, 2012, 109, 248701.	7.8	263
39	k-Core Organization in Complex Networks. Springer Optimization and Its Applications, 2012, , 229-252.	0.9	7
40	Growth Models for Networks. , 2012, , 1488-1498.		0
41	Belief-propagation algorithm and the Ising model on networks with arbitrary distributions of motifs. Physical Review E, 2011, 84, 041144.	2.1	26
42	Heterogeneous k -core versus bootstrap percolation on complex networks. Physical Review E, 2011, 83, 051134.	2.1	82
43	Zero Pearson coefficient for strongly correlated growing trees. Physical Review E, 2010, 81, 031135.	2.1	33
44	Stochastic cellular automata model of neural networks. Physical Review E, 2010, 81, 061921.	2.1	39
45	Bootstrap percolation on complex networks. Physical Review E, 2010, 82, 011103.	2.1	124
46	Explosive Percolation Transition is Actually Continuous. Physical Review Letters, 2010, 105, 255701.	7.8	220
47	Critical phenomena in complex networks. Reviews of Modern Physics, 2008, 80, 1275-1335.	45.6	1,730
48	Transition from small to large world in growing networks. Europhysics Letters, 2008, 81, 30004.	2.0	17
49	Organization of modular networks. Physical Review E, 2008, 78, 056106.	2.1	20
50	Laplacian spectra of, and random walks on, complex networks: Are scale-free architectures really important?. Physical Review E, 2008, 77, 036115.	2.1	78
51	Percolation on correlated networks. Physical Review E, 2008, 78, 051105.	2.1	92
52	Berezinskii-Kosterlitz-Thouless-like transition in the Potts model on an inhomogeneous annealed network. Physical Review E, 2007, 75, 041112.	2.1	20
53	k-Core Organization of Complex Networks. Physical Review Letters, 2006, 96, 040601.	7.8	525
54	k-core (bootstrap) percolation on complex networks: Critical phenomena and nonlocal effects. Physical Review E, 2006, 73, 056101.	2.1	151

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55	Degree-dependent intervertex separation in complex networks. <i>Physical Review E</i> , 2006, 73, 056122.	2.1	31
56	Evolving Weighted Scale-Free Networks. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	14
57	Phase Transition with the Berezinskii-Kosterlitz-Thouless Singularity in the Ising Model on a Growing Network. <i>Physical Review Letters</i> , 2005, 94, 200602.	7.8	33
58	Correlations in interacting systems with a network topology. <i>Physical Review E</i> , 2005, 72, 066130.	2.1	10
59	Organization of Complex Networks without Multiple Connections. <i>Physical Review Letters</i> , 2005, 95, 195701.	7.8	20
60	Complex networks created by aggregation. <i>Physical Review E</i> , 2005, 71, 036107.	2.1	23
61	Self-organization of collaboration networks. <i>Physical Review E</i> , 2004, 70, 036106.	2.1	203
62	Potts model on complex networks. <i>European Physical Journal B</i> , 2004, 38, 177-182.	1.5	63
63	Clustering of correlated networks. <i>Physical Review E</i> , 2004, 69, 027104.	2.1	48
64	Critical phenomena in networks. <i>Physical Review E</i> , 2003, 67, 026123.	2.1	88
65	Spectra of complex networks. <i>Physical Review E</i> , 2003, 68, 046109.	2.1	180
66	Mesoscopics and fluctuations in networks. <i>Physical Review E</i> , 2003, 67, 037103.	2.1	4
67	Renormalization group for evolving networks. <i>Physical Review E</i> , 2003, 67, 045102.	2.1	21
68	Multifractal properties of growing networks. <i>Europhysics Letters</i> , 2002, 57, 334-340.	2.0	23
69	Evolution of networks. <i>Advances in Physics</i> , 2002, 51, 1079-1187.	14.4	2,449
70	Pseudofractal scale-free web. <i>Physical Review E</i> , 2002, 65, 066122.	2.1	410
71	Ising model on networks with an arbitrary distribution of connections. <i>Physical Review E</i> , 2002, 66, 016104.	2.1	270
72	Size-dependent degree distribution of a scale-free growing network. <i>Physical Review E</i> , 2001, 63, 062101.	2.1	204

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73	Dielectric relaxation in Ba-based layered perovskites. Applied Physics Letters, 2001, 79, 662-664.	3.3	94
74	Language as an evolving word web. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 2603-2606.	2.6	202
75	Anomalous behavior of the contact process with aging. Physical Review E, 2001, 63, 046107.	2.1	9
76	Comment on "Breakdown of the Internet under Intentional Attack". Physical Review Letters, 2001, 87, 219801.	7.8	38
77	Giant strongly connected component of directed networks. Physical Review E, 2001, 64, 025101.	2.1	165
78	Scaling properties of scale-free evolving networks: "Continuous approach. Physical Review E, 2001, 63, 056125.	2.1	178
79	Effect of the accelerating growth of communications networks on their structure. Physical Review E, 2001, 63, 025101.	2.1	157
80	Anomalous percolation properties of growing networks. Physical Review E, 2001, 64, 066110.	2.1	89
81	Exactly solvable small-world network. Europhysics Letters, 2000, 50, 1-7.	2.0	64
82	Scaling behaviour of developing and decaying networks. Europhysics Letters, 2000, 52, 33-39.	2.0	178
83	Bak-Sneppen model near zero dimension. Physical Review E, 2000, 62, 295-298.	2.1	14
84	Evolution of networks with aging of sites. Physical Review E, 2000, 62, 1842-1845.	2.1	354
85	Evolution of a sandpile in a thick-flow regime. Physical Review E, 2000, 61, 2909-2919.	2.1	4
86	Structure of Growing Networks with Preferential Linking. Physical Review Letters, 2000, 85, 4633-4636.	7.8	1,038
87	How Sandpiles Spill: Sandpile Problem in a Thick Flow Regime. Physical Review Letters, 1999, 83, 2946-2949.	7.8	8
88	Avalanche mixing of granular solids. Europhysics Letters, 1998, 41, 25-30.	2.0	7
89	Kinetics of avalanche mixing of granular materials. Journal of Experimental and Theoretical Physics, 1997, 85, 141-151.	0.9	2
90	Magnetic-Flux Penetration and Critical Current in Long Periodically Modulated Josephson Junction. Europhysics Letters, 1994, 25, 693-698.	2.0	25

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91	Initialization of the holographic current constant component by recording pattern oscillation in photorefractive crystals. <i>Optics Letters</i> , 1993, 18, 1760.	3.3	0
92	Acoustic and dielectric relaxation in ferroelectrics with diffuse phase transition. <i>Ferroelectrics</i> , 1993, 143, 49-57.	0.6	6
93	Modeling of the critical state in the granular high- T_c superconductors. <i>Ferroelectrics</i> , 1993, 144, 71-76.	0.6	0
94	Effect of Pumping of a Constant Magnetic Field by an Oscillating Applied Magnetic Field into a Type-II Superconductor. <i>Europhysics Letters</i> , 1993, 24, 483-488.	2.0	0
95	Influence of the ferroelectric substrate on the ultrathin high- T_c superconductor films. <i>Ferroelectrics</i> , 1993, 144, 115-117.	0.6	0
96	Magnetic flux penetration into a non-uniform Josephson junction. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 1791-1798.	1.8	5
97	CRITICAL STATE IN DENSE JOSEPHSON STRUCTURES. <i>International Journal of Modern Physics B</i> , 1992, 06, 3031-3041.	2.0	2
98	Theory of interacting Josephson junctions (Josephson lattices). <i>Journal of Physics Condensed Matter</i> , 1990, 2, 6789-6800.	1.8	6
99	Acoustical properties of disordered ferroelectrics. <i>Ferroelectrics</i> , 1990, 112, 27-44.	0.6	76
100	The critical behaviour of systems with correlated defects. <i>Journal of Physics A</i> , 1984, 17, L677-L679.	1.6	8
101	Randomly directed bond percolation: a position-space renormalisation group approach. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, L889-L892.	1.5	3