JosÃ© F F Mendes

List of Publications by Year
in descending order

155	13,640	71102	25787
papers	citations	41 h-index	108 g-index

160	160	160	6215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution of networks. Advances in Physics, 2002, 51, 1079-1187.	14.4	2,449
2	Critical phenomena in complex networks. Reviews of Modern Physics, 2008, 80, 1275-1335.	45.6	1,730
3	Structure of Growing Networks with Preferential Linking. Physical Review Letters, 2000, 85, 4633-4636.	7.8	1,038
4	k-Core Organization of Complex Networks. Physical Review Letters, 2006, 96, 040601.	7.8	525
5	Pseudofractal scale-free web. Physical Review E, 2002, 65, 066122.	2.1	410
6	Evolution of networks with aging of sites. Physical Review E, 2000, 62, 1842-1845.	2.1	354
7	Ising model on networks with an arbitrary distribution of connections. Physical Review E, 2002, 66, 016104.	2.1	270
8	Avalanche Collapse of Interdependent Networks. Physical Review Letters, 2012, 109, 248701.	7.8	263
9	Localization and Spreading of Diseases in Complex Networks. Physical Review Letters, 2012, 109, 128702.	7.8	243
10	Explosive Percolation Transition is Actually Continuous. Physical Review Letters, 2010, 105, 255701.	7.8	220
11	Size-dependent degree distribution of a scale-free growing network. Physical Review E, 2001, 63, 062101.	2.1	204
12	Language as an evolving word web. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 2603-2606.	2.6	202
13	Spectra of complex networks. Physical Review E, 2003, 68, 046109.	2.1	180
14	Scaling behaviour of developing and decaying networks. Europhysics Letters, 2000, 52, 33-39.	2.0	178
15	Scaling properties of scale-free evolving networks: â€,Continuous approach. Physical Review E, 2001, 63, 056125.	2.1	178
16	Giant strongly connected component of directed networks. Physical Review E, 2001, 64, 025101.	2.1	165
17	Effect of the accelerating growth of communications networks on their structure. Physical Review E, 2001, 63, 025101.	2.1	157
18	Networks as a novel tool for studying team ball sports as complex social systems. Journal of Science and Medicine in Sport, 2011, 14, 170-176.	1.3	157

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19	k-core (bootstrap) percolation on complex networks: Critical phenomena and nonlocal effects. Physical Review E, 2006, 73, 056101.	2.1	151
20	Bootstrap percolation on complex networks. Physical Review E, 2010, 82, 011103.	2.1	124
21	Generalized scaling for models with multiple absorbing states. Journal of Physics A, 1994, 27, 3019-3028.	1.6	121
22	Nonequilibrium spin models with Ising universal behaviour. Journal of Physics A, 1993, 26, 2317-2324.	1.6	114
23	Percolation on correlated networks. Physical Review E, 2008, 78, 051105.	2.1	92
24	Anomalous percolation properties of growing networks. Physical Review E, 2001, 64, 066110.	2.1	89
25	Critical phenomena in networks. Physical Review E, 2003, 67, 026123.	2.1	88
26	Kuramoto model with frequency-degree correlations on complex networks. Physical Review E, 2013, 87, .	2.1	88
27	Heterogeneous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:math>-core versus bootstrap percolation on complex networks. Physical Review E, 2011, 83, 051134.	2.1	82
28	Biased imitation in coupled evolutionary games in interdependent networks. Scientific Reports, 2014, 4, 4436.	3.3	80
29	Metric structure of random networks. Nuclear Physics B, 2003, 653, 307-338.	2.5	78
30	Laplacian spectra of, and random walks on, complex networks: Are scale-free architectures really important?. Physical Review E, 2008, 77, 036115.	2.1	78
31	Principles of statistical mechanics of uncorrelated random networks. Nuclear Physics B, 2003, 666, 396-416.	2.5	73
32	Travel and tourism: Into a complex network. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2963-2971.	2.6	70
33	Exactly solvable small-world network. Europhysics Letters, 2000, 50, 1-7.	2.0	64
34	Potts model on complex networks. European Physical Journal B, 2004, 38, 177-182.	1.5	63
35	Weak percolation on multiplex networks. Physical Review E, 2014, 89, 042801.	2.1	53
36	Gender Gap in the ERASMUS Mobility Program. PLoS ONE, 2016, 11, e0149514.	2.5	51

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37	Onp-adic Gibbs measures of the countable state Potts model on the Cayley tree. Nonlinearity, 2007, 20, 2923-2937.	1.4	47
38	Dynamics of the infinite-ranged Potts model. Journal of Statistical Physics, 1991, 64, 653-672.	1.2	46
39	Influence of island diffusion on submonolayer epitaxial growth. Physical Review B, 1999, 59, 15950-15958.	3.2	45
40	Virtual Round Table on ten leading questions for network research. European Physical Journal B, 2004, 38, 143-145.	1.5	43
41	Ranking scientists. Nature Physics, 2015, 11, 882-883.	16.7	42
42	Stochastic cellular automata model of neural networks. Physical Review E, 2010, 81, 061921.	2.1	39
43	Comment on â€œBreakdown of the Internet under Intentional Attackâ€• Physical Review Letters, 2001, 87, 219801.	7.8	38
44	-core architecture and -core percolation on complex networks. Physica D: Nonlinear Phenomena, 2006, 224, 7-19.	2.8	38
45	Frequency of occurrence of numbers in the World Wide Web. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 548-556.	2.6	34
46	Critical behavior of the relaxation rate, the susceptibility, and a pair correlation function in the Kuramoto model on scale-free networks. Physical Review E, 2015, 91, 032814.	2.1	34
47	Short-time dynamics of a two-dimensional majority vote model. Physical Review E, 1998, 57, 108-110.	2.1	33
48	Zero Pearson coefficient for strongly correlated growing trees. Physical Review E, 2010, 81, 031135.	2.1	33
49	Impacts of preference and geography on epidemic spreading. Physical Review E, 2007, 76, 056109.	2.1	32
50	Mutually connected component of networks of networks with replica nodes. Physical Review E, 2015, 91, 012804.	2.1	32
51	Amyloid precursor protein interaction network in human testis: sentinel proteins for male reproduction. BMC Bioinformatics, 2015, 16, 12.	2.6	32
52	Vortex dynamics in a three-state model under cyclic dominance. Physical Review E, 1999, 60, 3776-3780.	2.1	31
53	Degree-dependent intervertex separation in complex networks. Physical Review E, 2006, 73, 056122.	2.1	31
54	Critical Dynamics of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:math>-Core Pruning Process. Physical Review X, 2015, 5, .	8.9	31

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55	Correlated edge overlaps in multiplex networks. Physical Review E, 2016, 94, 012303.	2.1	31
56	On the three state Potts model with competing interactions on the Bethe lattice. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P08012-P08012.	2.3	29
57	Logarithmic islanding in submonolayer epitaxial growth. European Physical Journal B, 1998, 4, 401-404.	1.5	28
58	Statistical mechanics of rumour spreading in network communities. Procedia Computer Science, 2010, 1, 2331-2339.	2.0	28
59	Hierarchical social networks and information flow. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 695-708.	2.6	27
60	Belief-propagation algorithm and the Ising model on networks with arbitrary distributions of motifs. Physical Review E, 2011, 84, 041144.	2.1	26
61	Solution of the explosive percolation quest: Scaling functions and critical exponents. Physical Review E, 2014, 90, 022145.	2.1	25
62	Bethe Ansatz Solution of Discrete Time Stochastic Processes with Fully Parallel Update. Journal of Statistical Physics, 2006, 123, 125-166.	1.2	24
63	Multifractal properties of growing networks. Europhysics Letters, 2002, 57, 334-340.	2.0	23
64	Critical phenomena and noise-induced phase transitions in neuronal networks. Physical Review E, 2014, 89, 012701.	2.1	23
65	Scale-free networks with exponent one. Physical Review E, 2016, 94, 022302.	2.1	22
66	Relaxation of initial conditions in systems with infinitely many absorbing states. Physical Review E, 1998, 58, 7020-7026.	2.1	21
67	Mapping the Structure of Directed Networks: Beyond the Bow-Tie Diagram. Physical Review Letters, 2017, 118, 078301.	7.8	21
68	Organization of Complex Networks without Multiple Connections. Physical Review Letters, 2005, 95, 195701.	7.8	20
69	Berezinskii-Kosterlitz-Thouless-like transition in the Potts model on an inhomogeneous annealed network. Physical Review E, 2007, 75, 041112.	2.1	20
70	The network of scientific collaborations within the European framework programme. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 675-683.	2.6	20
71	Organization of modular networks. Physical Review E, 2008, 78, 056106.	2.1	20
72	Targeted damage to interdependent networks. Physical Review E, 2018, 98, .	2.1	20

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73	Random networks: eigenvalue spectra. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 76-83.	2.6	19
74	Phase diagram of an Ising model with competitive interactions on a Husimi tree and its disordered counterpart. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2777-2792.	2.6	19
75	A parity conserving dimer model with infinitely many absorbing states. European Physical Journal B, 1999, 12, 123-127.	1.5	18
76	Scale-free network with Boolean dynamics as a function of connectivity. Physical Review E, 2004, 70, 066140.	2.1	17
77	Transition from small to large world in growing networks. Europhysics Letters, 2008, 81, 30004.	2.0	17
78	Critical exponents of the explosive percolation transition. Physical Review E, 2014, 89, 042148.	2.1	17
79	Complex network view of evolving manifolds. Physical Review E, 2018, 97, 032316.	2.1	17
80	Bak-Sneppen model near zero dimension. Physical Review E, 2000, 62, 295-298.	2.1	14
81	Evolving Weighted Scale-Free Networks. AIP Conference Proceedings, 2005, , .	0.4	14
82	On contour arguments for the three state Potts model with competing interactions on a semi-infinite Cayley tree. Journal of Mathematical Physics, 2007, 48, 013301.	1.1	14
83	The interplay of universities and industry through the FP5 network. New Journal of Physics, 2007, 9, 183-183.	2.9	13
84	Communication and correlation among communities. Physical Review E, 2009, 80, 011142.	2.1	13
85	Metastable localization of diseases in complex networks. Physical Review E, 2016, 94, 062305.	2.1	13
86	Effective field theory for models defined over small-world networks: First- and second-order phase transitions. Physical Review E, 2008, 78, 031102.	2.1	12
87	Growing community networks with local events. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1273-1278.	2.6	12
88	First- and second-order phase transitions in Ising models on small-world networks: Simulations and comparison with an effective field theory. Physical Review E, 2010, 82, 011141.	2.1	12
89	Core organization of directed complex networks. Physical Review E, 2013, 87, .	2.1	12
90	Crossover from directed percolation to compact directed percolation. Physical Review E, 1996, 54, R3071-R3074.	2.1	11

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91	Social Networking for Pervasive Adaptation. , 2008, , .		11
92	A data-driven model for COVID-19 pandemic â€“ Evolution of the attack rate and prognosis for Brazil. Chaos, Solitons and Fractals, 2021, 152, 111359.	5.1	11
93	Correlations in interacting systems with a network topology. Physical Review E, 2005, 72, 066130.	2.1	10
94	Critical behavior and correlations on scale-free small-world networks: Application to network design. Physical Review E, 2011, 83, 061149.	2.1	10
95	Impact of noise and damage on collective dynamics of scale-free neuronal networks. Physical Review E, 2013, 87, .	2.1	10
96	Anomalous behavior of the contact process with aging. Physical Review E, 2001, 63, 046107.	2.1	9
97	Diluted antiferromagnet in a ferromagnetic environment. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 145002.	2.1	9
98	Noise-enhanced nonlinear response and the role of modular structure for signal detection in neuronal networks. Physical Review E, 2014, 90, 052709.	2.1	9
99	Giant components in directed multiplex networks. Physical Review E, 2014, 90, 052809.	2.1	9
100	Construction and analysis of a human testis/sperm-enriched interaction network: Unraveling the PPP1CC2 interactome. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 375-385.	2.4	9
101	Nonbacktracking expansion of finite graphs. Physical Review E, 2017, 95, 042322.	2.1	9
102	Finding the Optimal Nets for Self-Folding Kirigami. Physical Review Letters, 2018, 120, 188001.	7.8	9
103	How Sandpiles Spill: Sandpile Problem in a Thick Flow Regime. Physical Review Letters, 1999, 83, 2946-2949.	7.8	8
104	Static critical behavior in the inactive phase of the pair contact process. Physical Review E, 2001, 65, 016111.	2.1	8
105	On the chaotic behavior of a generalized logistic p-adic dynamical system. Journal of Differential Equations, 2007, 243, 125-145.	2.2	8
106	Nested subgraphs of complex networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 385003.	2.1	8
107	Avalanches in Multiplex and Interdependent Networks. Understanding Complex Systems, 2014, , 37-52.	0.6	8
108	Inverting the Achlioptas rule for explosive percolation. Physical Review E, 2015, 91, 042130.	2.1	8

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109	Synchronization in the random-field Kuramoto model on complex networks. Physical Review E, 2016, 94, 012308.	2.1	8
110	The central role of peripheral nodes in directed network dynamics. Scientific Reports, 2019, 9, 13162.	3.3	8
111	Cycles and clustering in multiplex networks. Physical Review E, 2016, 94, 062308.	2.1	7
112	Effect of Initial Configuration of Weights on Training and Function of Artificial Neural Networks. Mathematics, 2021, 9, 2246.	2.2	7
113	k-Core Organization in Complex Networks. Springer Optimization and Its Applications, 2012, , 229-252.	0.9	7
114	On Phase Transitions for p-Adic Potts Model with Competing Interactions on a Cayley Tree. AIP Conference Proceedings, 2006, , .	0.4	6
115	A Unified Approach to Percolation Processes on Multiplex Networks. Understanding Complex Systems, 2016, , 101-123.	0.6	6
116	Exotic critical behavior of weak multiplex percolation. Physical Review E, 2020, 102, 032301.	2.1	6
117	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
118	Weighted and Directed Network on Traveling Patterns. Lecture Notes in Computer Science, 2008, , 145-154.	1.3	5
119	Nonuniversal critical behaviour in the 1D BEG model with Kawasaki dynamics. Journal of Physics A, 1992, 25, 73-83.	1.6	4
120	Evolution of a sandpile in a thick-flow regime. Physical Review E, 2000, 61, 2909-2919.	2.1	4
121	Monte Carlo study of the elastic interaction in heteroepitaxial growth. Physical Review E, 2002, 65, 061602.	2.1	4
122	Structural stability of interaction networks against negative external fields. Physical Review E, 2018, 97, 042311.	2.1	4
123	Enhanced robustness of single-layer networks with redundant dependencies. Physical Review E, 2021, 103, 022321.	2.1	4
124	Impact of field heterogeneity on the dynamics of the forced Kuramoto model. Physical Review E, 2021, 104, 024313.	2.1	4
125	Generation and Disruption of Circadian Rhythms in the Suprachiasmatic Nucleus: A Core-Shell Model. Journal of Biological Rhythms, 2022, 37, 545-561.	2.6	4
126	Roughness of sandpile surfaces. Physical Review E, 2004, 69, 031105.	2.1	3

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127	Simple reaction-diffusion population model on scale-free networks. Physical Review E, 2008, 78, 047101.	2.1	3
128	Stochastic resonance as an emergent property of neural networks. AIP Conference Proceedings, 2013, , .	0.4	3
129	Topological phase transition in the periodically forced Kuramoto model. Chaos, Solitons and Fractals, 2021, 145, 110816.	5.1	3
130	Approximating nonbacktracking centrality and localization phenomena in large networks. Physical Review E, 2021, 104, 054306.	2.1	3
131	A Transnational and Transregional Study of the Impact and Effectiveness of Social Distancing for COVID-19 Mitigation. Entropy, 2021, 23, 1530.	2.2	3
132	Optimization of COVID-19 vaccination and the role of individuals with a high number of contacts: A model based approach. PLoS ONE, 2022, 17, e0262433.	2.5	3
133	Solvable metric growing networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P12002.	2.3	2
134	Critical phenomena on heterogeneous small-world networks. Europhysics Letters, 2010, 92, 40013.	2.0	2
135	Modeling Organizational Information System Architecture Using "Complex Networks" Concepts. , 2012, , .		2
136	Critical and resonance phenomena in neural networks. , 2013, , .		2
137	Sensitivity of directed networks to the addition and pruning of edges and vertices. Physical Review E, 2017, 96, 022317.	2.1	2
138	Critical behavior of models with infinitely many absorbing states. Brazilian Journal of Physics, 2000, 30, 105-112.	1.4	2
139	Quantifying dissimilarities between heterogeneous networks with community structure. Physica A: Statistical Mechanics and Its Applications, 2021, 588, 126574.	2.6	2
140	Exact Solution of Dissociative â€œHot Dimersâ€•with Reaction in One Dimension. Europhysics Letters, 1994, 27, 227-233.	2.0	1
141	Time of avalanche mixing of granular materials in a half filled drum. European Physical Journal E, 2001, 5, 441-444.	1.6	1
142	International tourism network. , 2007, , .		1
143	Small-world of communities: communication and correlation of the meta-network. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, L08004.	2.3	1
144	Neural networks with dynamical synapses: From mixed-mode oscillations and spindles to chaos. AIP Conference Proceedings, 2013, , .	0.4	1

#	Article	IF	Citations
145	Choosing among alternative histories of a tree. Physical Review E, 2020, 102, 032304.	2.1	1
146	Complex Distributions Emerging in Filtering and Compression. Physical Review X, 2020, 10, .	8.9	1
147	Theory of Random Networks and Their Role in Communications Networks. , 2004, , 69-92.		1
148	Hidden transition in multiplex networks. Scientific Reports, 2022, 12, 3973.	3.3	1
149	Nonequilibrium stationary states in the 1-d BEG model: first- and second-order phase transitions. Journal of Physics A, 1993, 26, 3853-3862.	1.6	0
150	Competing dynamics in the one-dimensional Blume-Emery-Griffiths model: Hydrodynamic equations. Physical Review E, 1993, 48, 1738-1743.	2.1	0
151	Emergence of scale-free networks from optimization process. Journal of Physics: Conference Series, 2013, 410, 012094.	0.4	0
152	Filtering Statistics on Networks. Entropy, 2020, 22, 1149.	2.2	0
153	Effect of Accelerated Growth on Networks Dynamics. Lecture Notes in Physics, 2003, , 88-113.	0.7	0
154	On Chaos of a Cubic p-adic Dynamical System. Progress in Nonlinear Differential Equations and Their Application, 2007, , 305-315.	0.9	0
155	Characteristics of the Explosive Percolation Transition. Springer Proceedings in Mathematics and Statistics, 2014, , 17-24.	0.2	0