

Francisco A Rodrigues

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.

110
papers

4,383
citations

25
h-index

65
g-index

122
ext. papers

5,320
ext. citations

4.2
avg. IF

5.95
L-index

#	Paper	IF	Citations
110	Characterization of complex networks: A survey of measurements. <i>Advances in Physics</i> , 2007 , 56, 167-242	28.4	1428
109	The Kuramoto model in complex networks. <i>Physics Reports</i> , 2016 , 610, 1-98	27.7	430
108	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. <i>Advances in Physics</i> , 2011 , 60, 329-412	18.4	422
107	Clustering algorithms: A comparative approach. <i>PLoS ONE</i> , 2019 , 14, e0210236	3.7	149
106	A systematic comparison of supervised classifiers. <i>PLoS ONE</i> , 2014 , 9, e94137	3.7	119
105	Cluster explosive synchronization in complex networks. <i>Physical Review Letters</i> , 2013 , 110, 218701	7.4	115
104	Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , 2014 , 90, 032812	2.4	91
103	Fundamentals of spreading processes in single and multilayer complex networks. <i>Physics Reports</i> , 2018 , 756, 1-59	27.7	91
102	Keystone species in seed dispersal networks are mainly determined by dietary specialization. <i>Oikos</i> , 2015 , 124, 1031-1039	4	79
101	Explosive synchronization enhanced by time-delayed coupling. <i>Physical Review E</i> , 2012 , 86, 016102	2.4	65
100	Crime prediction through urban metrics and statistical learning. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 505, 435-443	3.3	54
99	Community structure and dynamics in climate networks. <i>Climate Dynamics</i> , 2011 , 37, 933-940	4.2	53
98	Complex networks: the key to systems biology. <i>Genetics and Molecular Biology</i> , 2008 , 31, 591-601	2	53
97	The structure and resilience of financial market networks. <i>Chaos</i> , 2012 , 22, 013117	3.3	46
96	Determination of the critical coupling of explosive synchronization transitions in scale-free networks by mean-field approximations. <i>Physical Review E</i> , 2012 , 86, 056108	2.4	46
95	Network Centrality: An Introduction. <i>Advances in Dynamics, Patterns, Cognition</i> , 2019 , 177-196	0.7	42
94	Disease Localization in Multilayer Networks. <i>Physical Review X</i> , 2017 , 7,	9.1	41

93	An entropy-based approach to automatic image segmentation of satellite images. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 512-518	3.3	41
92	A survey on symbolic data-based music genre classification. <i>Expert Systems With Applications</i> , 2016 , 60, 190-210	7.8	38
91	Entropy of weighted recurrence plots. <i>Physical Review E</i> , 2014 , 90, 042919	2.4	36
90	Collective behavior in financial markets. <i>Europhysics Letters</i> , 2011 , 96, 48004	1.6	36
89	Quantifying the interdisciplinarity of scientific journals and fields. <i>Journal of Informetrics</i> , 2013 , 7, 469-477	3.1	35
88	Estimating complex cortical networks via surface recordings- a critical note. <i>NeuroImage</i> , 2010 , 53, 439-449	2.9	31
87	Universality in the spectral and eigenfunction properties of random networks. <i>Physical Review E</i> , 2015 , 91, 032122	2.4	27
86	Effects of assortative mixing in the second-order Kuramoto model. <i>Physical Review E</i> , 2015 , 91, 052805	2.4	26
85	Analysis of cluster explosive synchronization in complex networks. <i>Physical Review E</i> , 2014 , 90, 062810	2.4	25
84	SURVIVING OPINIONS IN SZNAJD MODELS ON COMPLEX NETWORKS. <i>International Journal of Modern Physics C</i> , 2005 , 16, 1785-1792	1.1	25
83	Thermodynamic characterization of networks using graph polynomials. <i>Physical Review E</i> , 2015 , 92, 032810	2.4	24
82	Multiple pathways analysis of brain functional networks from EEG signals: an application to real data. <i>Brain Topography</i> , 2011 , 23, 344-54	4.3	23
81	Multiplex Networks. <i>SpringerBriefs in Complexity</i> , 2018 ,	0.3	23
80	Collective dynamics in two populations of noisy oscillators with asymmetric interactions. <i>Physical Review E</i> , 2015 , 91, 062910	2.4	22
79	Insights into the assembly rules of a continent-wide multilayer network. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1525-1532	12.3	22
78	The nested structural organization of the worldwide trade multi-layer network. <i>Scientific Reports</i> , 2019 , 9, 2866	4.9	21
77	Exploration of the antiplatelet activity profile of betulinic acid on human platelets. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6977-83	5.7	21
76	Complex systems: Features, similarity and connectivity. <i>Physics Reports</i> , 2020 , 861, 1-41	27.7	21

75	Low-dimensional behavior of Kuramoto model with inertia in complex networks. <i>Scientific Reports</i> , 2014 , 4, 4783	4.9	20
74	On degree-degree correlations in multilayer networks. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 323-324, 5-11	3.3	19
73	Multilayer Networks: Metrics and Spectral Properties. <i>Understanding Complex Systems</i> , 2016 , 17-35	0.4	19
72	Rumor propagation with heterogeneous transmission in social networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017 , 2017, 023401	1.9	18
71	Epidemic spreading with awareness and different timescales in multiplex networks. <i>Physical Review E</i> , 2019 , 100, 032313	2.4	18
70	Unfolding the Complexity of the Global Value Chain: Strength and Entropy in the Single-Layer, Multiplex, and Multi-Layer International Trade Networks. <i>Entropy</i> , 2018 , 20,	2.8	18
69	A general Markov chain approach for disease and rumour spreading in complex networks. <i>Journal of Complex Networks</i> , 2018 , 6, 215-242	1.7	17
68	Beyond the average: Detecting global singular nodes from local features in complex networks. <i>Europhysics Letters</i> , 2009 , 87, 18008	1.6	17
67	Impact of the distribution of recovery rates on disease spreading in complex networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	17
66	Scaling properties of multilayer random networks. <i>Physical Review E</i> , 2017 , 96, 012307	2.4	16
65	Seeking for simplicity in complex networks. <i>Europhysics Letters</i> , 2009 , 85, 48001	1.6	16
64	A complex networks approach for data clustering. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 6174-6183	3.3	15
63	Influence maximization by rumor spreading on correlated networks through community identification. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 83, 105094	3.7	14
62	Influence of network topology on cooperative problem-solving systems. <i>Theory in Biosciences</i> , 2016 , 135, 101-10	1.3	13
61	A pattern recognition approach to complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P11015	1.9	13
60	Modeling worldwide highway networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 374, 22-27	2.3	13
59	Chain motifs: the tails and handles of complex networks. <i>Physical Review E</i> , 2008 , 77, 026106	2.4	13
58	Automatic network fingerprinting through single-node motifs. <i>PLoS ONE</i> , 2011 , 6, e15765	3.7	13

57	Correlations between climate network and relief data. <i>Nonlinear Processes in Geophysics</i> , 2014 , 21, 1127-1132	1.3	11
56	Protein lethality investigated in terms of long range dynamical interactions. <i>Molecular BioSystems</i> , 2009 , 5, 385-90		11
55	Synchronization in clustered random networks. <i>Physical Review E</i> , 2013 , 87,	2.4	10
54	Segmentation of large images based on super-pixels and community detection in graphs. <i>IET Image Processing</i> , 2017 , 11, 1219-1228	1.7	10
53	Tweaking synchronization by connectivity modifications. <i>Physical Review E</i> , 2016 , 93, 062211	2.4	9
52	Centrality in earthquake multiplex networks. <i>Chaos</i> , 2018 , 28, 063113	3.3	9
51	Cooperative behavior between oscillatory and excitable units: the peculiar role of positive coupling-frequency correlations. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	9
50	Structure and dynamics of functional networks in child-onset schizophrenia. <i>Clinical Neurophysiology</i> , 2014 , 125, 1589-95	4.3	9
49	Resilience of protein-protein interaction networks as determined by their large-scale topological features. <i>Molecular BioSystems</i> , 2011 , 7, 1263-9		9
48	Border trees of complex networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224005	2	9
47	The role of community structure on the nature of explosive synchronization. <i>Chaos</i> , 2018 , 28, 033102	3.3	8
46	Protein domain connectivity and essentiality. <i>Applied Physics Letters</i> , 2006 , 89, 174101	3.4	8
45	High prevalence regimes in the pair-quenched mean-field theory for the susceptible-infected-susceptible model on networks. <i>Physical Review E</i> , 2020 , 102, 012313	2.4	8
44	Onset of synchronization of Kuramoto oscillators in scale-free networks. <i>Physical Review E</i> , 2019 , 100, 042302	2.4	7
43	Mobility helps problem-solving systems to avoid groupthink. <i>Physical Review E</i> , 2019 , 99, 032301	2.4	7
42	Spectra of random networks in the weak clustering regime. <i>Europhysics Letters</i> , 2018 , 121, 68001	1.6	7
41	Diluted banded random matrices: scaling behavior of eigenfunction and spectral properties. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 495205	2	7
40	A structure-dynamic approach to cortical organization: number of paths and accessibility. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 57-62	3	7

39	A polynomial eigenvalue approach for multiplex networks. <i>New Journal of Physics</i> , 2018 , 20, 095004	2.9	7
38	Multifractality in random networks with power-law decaying bond strengths. <i>Physical Review E</i> , 2019 , 99, 042303	2.4	6
37	Concentric network symmetry. <i>Information Sciences</i> , 2016 , 333, 61-80	7.7	6
36	A process of rumour scotching on finite populations. <i>Royal Society Open Science</i> , 2015 , 2, 150240	3.3	6
35	Segmentation of Large Images with Complex Networks 2012 ,		6
34	Generalized connectivity between any two nodes in a complex network. <i>Physical Review E</i> , 2010 , 81, 036113	1.3	6
33	Sensitivity of complex networks measurements. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P03009	1.9	6
32	FAST COMMUNITY IDENTIFICATION BY HIERARCHICAL GROWTH. <i>International Journal of Modern Physics C</i> , 2007 , 18, 937-947	1.1	6
31	Analyzing trails in complex networks. <i>Physical Review E</i> , 2007 , 76, 046106	2.4	6
30	Disease and information spreading at different speeds in multiplex networks. <i>Physical Review E</i> , 2020 , 102, 022312	2.4	6
29	The Impact of Social Curiosity on Information Spreading on Networks 2017 ,		5
28	Signal propagation in cortical networks: a digital signal processing approach. <i>Frontiers in Neuroinformatics</i> , 2009 , 3, 24	3.9	5
27	Modeling connectivity in terms of network activity. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, L09005	1.9	4
26	A generalized approach to the modeling of the species-area relationship. <i>PLoS ONE</i> , 2014 , 9, e105132	3.7	4
25	Centrality anomalies in complex networks as a result of model over-simplification. <i>New Journal of Physics</i> , 2020 , 22, 013043	2.9	4
24	Topological versus spectral properties of random geometric graphs. <i>Physical Review E</i> , 2020 , 102, 042306	6.4	4
23	Spacing ratio characterization of the spectra of directed random networks. <i>Physical Review E</i> , 2020 , 102, 062305	2.4	4
22	Layer degradation triggers an abrupt structural transition in multiplex networks. <i>Physical Review E</i> , 2019 , 100, 012313	2.4	3

21	Collective dynamics of random Janus oscillator networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
20	The drivers of systemic risk in financial networks: a data-driven machine learning analysis. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111588	9.3	3
19	Comparison of the interactomic networks of different species in terms of accessibility. <i>Molecular BioSystems</i> , 2010 , 6, 234-40		2
18	Modeling Highway Networks with Path-Geographical Transformations. <i>Studies in Computational Intelligence</i> , 2009 , 115-126	0.8	2
17	Insights on the assembly rules of a continent-wide multilayer network		2
16	Role of time scale in the spreading of asymmetrically interacting diseases. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
15	Traveling phase waves in asymmetric networks of noisy chaotic attractors. <i>Physical Review E</i> , 2016 , 94, 042210	2.4	1
14	The impact of information spreading on disease dynamics: Comment on "Coupled disease-behavior on complex networks: A review" by Z. Wang et al. <i>Physics of Life Reviews</i> , 2015 , 15, 37-8	2.1	1
13	The Influence of Network Properties on the Synchronization of Kuramoto Oscillators Quantified by a Bayesian Regression Analysis. <i>Journal of Statistical Physics</i> , 2013 , 152, 519-533	1.5	1
12	MODELING THE EVOLUTION OF COMPLEX NETWORKS THROUGH THE PATH-STAR TRANSFORMATION AND OPTIMAL MULTIVARIATE METHODS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 795-804	2	1
11	Multiscale Curvature Analysis of Asphaltic Aggregate Particles. <i>Journal of Computing in Civil Engineering</i> , 2010 , 24, 506-513	5	1
10	Power laws in the Roman Empire: a survival analysis. <i>Royal Society Open Science</i> , 2021 , 8, 210850	3.3	1
9	Evolving climate network perspectives on global surface air temperature effects of ENSO and strong volcanic eruptions. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 3075	2.3	1
8	Epidemic spreading in populations of mobile agents with adaptive behavioral response. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111849	9.3	1
7	Comparison of Different Spike Train Synchrony Measures Regarding Their Robustness to Erroneous Data From Bicuculline-Induced Epileptiform Activity. <i>Neural Computation</i> , 2020 , 32, 887-911	2.9	0
6	NeoBat Interactions: A data set of bat-plant interactions in the Neotropics.. <i>Ecology</i> , 2022 , e3640	4.6	0
5	Universality of eigenvector delocalization and the nature of the SIS phase transition in multiplex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 103405	1.9	0
4	Nonuniform random graphs on the plane: A scaling study.. <i>Physical Review E</i> , 2022 , 105, 034304	2.4	0

- 3 Supervised Classification of Basaltic Aggregate Particles Based on Texture Properties. *Journal of Computing in Civil Engineering*, **2013**, 27, 177-182 5
- 2 Modelos de machine learning para predi do sucesso de startups. *Revista De Gest E Projetos*, **2021**, 12, 28-55 1.5
- 1 Complex Networks to Differentiate Elderly and Young People. *Communications in Computer and Information Science*, **2021**, 435-444 0.3