Cesar H Comin

List of Publications by Year
in descending order

50	1,256	759233 12	377865 34
papers	citations	h-index	g-index

51	51	51	1619
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clustering algorithms: A comparative approach. PLoS ONE, 2019, 14, e0210236.	2.5	303
2	A Systematic Comparison of Supervised Classifiers. PLoS ONE, 2014, 9, e94137.	2.5	162
3	Identifying the starting point of a spreading process in complex networks. Physical Review E, 2011, 84, 056105.	2.1	153
4	Sensory-Related Neural Activity Regulates the Structure of Vascular Networks in the Cerebral Cortex. Neuron, 2014, 83, 1117-1130.	8.1	131
5	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. Nature Neuroscience, 2020, 23, 1090-1101.	14.8	70
6	Approximate von Neumann entropy for directed graphs. Physical Review E, 2014, 89, 052804.	2.1	45
7	Complex systems: Features, similarity and connectivity. Physics Reports, 2020, 861, 1-41.	25.6	35
8	Thermodynamic characterization of networks using graph polynomials. Physical Review E, 2015, 92, 032810.	2.1	28
9	The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. Stem Cell Reports, 2017, 9, 1735-1744.	4.8	24
10	Temporal modulation of collective cell behavior controls vascular network topology. ELife, 2016, 5, .	6.0	20
11	Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring. Communications Biology, 2022, 5, 26.	4.4	19
12	Automated high-content morphological analysis of muscle fiber histology. Computers in Biology and Medicine, 2015, 63, 28-35.	7.0	15
13	Correlations between climate network and relief data. Nonlinear Processes in Geophysics, 2014, 21, 1127-1132.	1.3	13
14	Effects of threshold on the topology of gene co-expression networks. Molecular BioSystems, 2017, 13, 2024-2035.	2.9	13
15	Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible for Detection of Cancer Biomarkers. ACS Applied Materials & Interfaces, 2017, 9, 5885-5890.	8.0	12
16	The dynamics of knowledge acquisition via self-learning in complex networks. Chaos, 2018, 28, 083106.	2.5	12
17	Statistical physics approach to quantifying differences in myelinated nerve fibers. Scientific Reports, 2014, 4, 4511.	3.3	9
18	Concentric network symmetry. Information Sciences, 2016, 333, 61-80.	6.9	9

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19	Connecting network science and information theory. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 641-648.	2.6	9
20	Morphological Neuron Classification Based on Dendritic Tree Hierarchy. Neuroinformatics, 2019, 17, 147-161.	2.8	7
21	Quantification of retinal blood leakage in fundus fluorescein angiography in a retinal angiogenesis model. Scientific Reports, 2021, 11, 19903.	3.3	7
22	Shape, connectedness and dynamics in neuronal networks. Journal of Neuroscience Methods, 2013, 220, 100-115.	2.5	6
23	The relationship between structure and function in locally observed complex networks. New Journal of Physics, 2013, 15, 013048.	2.9	6
24	Topological characterization of world cities. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 083212.	2.3	6
25	An image processing approach to analyze morphological features of microscopic images of muscle fibers. Computerized Medical Imaging and Graphics, 2014, 38, 803-814.	5.8	5
26	Minimal paths between communities induced by geographical networks. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 023403.	2.3	5
27	How integrated are theoretical and applied physics?. Scientometrics, 2018, 116, 1113-1121.	3.0	5
28	Comparison of Different Spike Train Synchrony Measures Regarding Their Robustness to Erroneous Data From Bicuculline-Induced Epileptiform Activity. Neural Computation, 2020, 32, 887-911.	2.2	5
29	Random walks in directed modular networks. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12003.	2.3	4
30	Seeking maximum linearity of transfer functions. Review of Scientific Instruments, 2016, 87, 124701.	1.3	4
31	An Exercise Mimetic Approach to Reduce Poststroke Deconditioning and Enhance Stroke Recovery. Neurorehabilitation and Neural Repair, 2021, 35, 471-485.	2.9	4
32	A framework for analyzing the relationship between gene expression and morphological, topological, and dynamical patterns in neuronal networks. Journal of Neuroscience Methods, 2015, 245, 1-14.	2.5	3
33	A framework for evaluating complex networks measurements. Europhysics Letters, 2015, 110, 68002.	2.0	3
34	Negative feedback, linearity and parameter invariance in linear electronics. Electrical Engineering, 2018, 100, 1159-1181.	2.0	3
35	Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. Clinical Science, 2018, 132, 1453-1470.	4.3	3
36	Unbiased analysis of mouse brain endothelial networks from two- or three-dimensional fluorescence images. Neurophotonics, 2022, 9, .	3.3	3

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37	STRUCTURE AND DYNAMICS: THE TRANSITION FROM NONEQUILIBRIUM TO EQUILIBRIUM IN INTEGRATE-AND-FIRE DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250174.	1.7	2
38	A diffusion-based approach to obtaining the borders of urban areas. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053205.	2.3	2
39	Characterizing BJTs using the Early voltage in the forward active mode. International Journal of Circuit Theory and Applications, 2018, 46, 978-986.	2.0	2
40	Topology and dynamics in complex networks: The role of edge reciprocity. Europhysics Letters, 2018, 122, 26001.	2.0	2
41	An analysis of the influence of transfer learning when measuring the tortuosity of blood vessels. Computer Methods and Programs in Biomedicine, 2022, 225, 107021.	4.7	2
42	Biological network border detection. Integrative Biology (United Kingdom), 2017, 9, 947-955.	1.3	1
43	Problem-solving using complex networks. European Physical Journal B, 2019, 92, 1.	1.5	1
44	A methodology to infer gene networks from spatial patterns of expression â€“ an application to fluorescence in situ hybridization images. Molecular BioSystems, 2013, 9, 1926.	2.9	0
45	A pattern recognition approach to transistor array parameter variance. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 176-185.	2.6	0
46	Characterizing the Trabecular Bone Tissue of the Toco Toucan Bill. , 2018, , .		0
47	Malleability of complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 083203.	2.3	0
48	Quantifying the regularity of a 3D set of points on the surface of an ellipsoidal object. Pattern Recognition Letters, 2020, 133, 1-7.	4.2	0
49	Classification of abrupt changes along viewing profiles of scientific articles. Journal of Informetrics, 2021, 15, 101158.	2.9	0
50	Gland context networks: a novel approach for improving prostate cancer identification. Computerized Medical Imaging and Graphics, 2021, 94, 101999.	5.8	0