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	Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring. Communications Biology, 2022, 5, 26.	4.4	19
2	Unbiased analysis of mouse brain endothelial networks from two- or three-dimensional fluorescence images. Neurophotonics, 2022, 9, .	3.3	3
3	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
4	An Exercise Mimetic Approach to Reduce Poststroke Deconditioning and Enhance Stroke Recovery. Neurorehabilitation and Neural Repair, 2021, 35, 471-485.	2.9	4
5	Classification of abrupt changes along viewing profiles of scientific articles. Journal of Informetrics, 2021, 15, 101158.	2.9	0
6	Quantification of retinal blood leakage in fundus fluorescein angiography in a retinal angiogenesis model. Scientific Reports, 2021, 11, 19903.	3.3	7
7	Gland context networks: a novel approach for improving prostate cancer identification. Computerized Medical Imaging and Graphics, 2021, 94, 101999.	5.8	0
8	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. Nature Neuroscience, 2020, 23, 1090-1101.	14.8	70
9	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
10	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
11	Complex systems: Features, similarity and connectivity. Physics Reports, 2020, 861, 1-41.	25.6	35
12	Morphological Neuron Classification Based on Dendritic Tree Hierarchy. Neuroinformatics, 2019, 17, 147-161.	2.8	7
13	Malleability of complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 083203.	2.3	0
14	Problem-solving using complex networks. European Physical Journal B, 2019, 92, 1.	1.5	1
15	Clustering algorithms: A comparative approach. PLoS ONE, 2019, 14, e0210236.	2.5	303
16	Connecting network science and information theory. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 641-648.	2.6	9
17	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
18	A pattern recognition approach to transistor array parameter variance. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 176-185.	2.6	0

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19	Negative feedback, linearity and parameter invariance in linear electronics. Electrical Engineering, 2018, 100, 1159-1181.	2.0	3
20	Characterizing the Trabecular Bone Tissue of the Toco Toucan Bill. , 2018, , .		0
21	Topological characterization of world cities. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 083212.	2.3	6
22	How integrated are theoretical and applied physics?. Scientometrics, 2018, 116, 1113-1121.	3.0	5
23	Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. Clinical Science, 2018, 132, 1453-1470.	4.3	3
24	The dynamics of knowledge acquisition via self-learning in complex networks. Chaos, 2018, 28, 083106.	2.5	12
25	Topology and dynamics in complex networks: The role of edge reciprocity. Europhysics Letters, 2018, 122, 26001.	2.0	2
26	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
27	Biological network border detection. Integrative Biology (United Kingdom), 2017, 9, 947-955.	1.3	1
28	Effects of threshold on the topology of gene co-expression networks. Molecular BioSystems, 2017, 13, 2024-2035.	2.9	13
29	The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. Stem Cell Reports, 2017, 9, 1735-1744.	4.8	24
30	A diffusion-based approach to obtaining the borders of urban areas. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053205.	2.3	2
31	Seeking maximum linearity of transfer functions. Review of Scientific Instruments, 2016, 87, 124701.	1.3	4
32	Concentric network symmetry. Information Sciences, 2016, 333, 61-80.	6.9	9
33	Minimal paths between communities induced by geographical networks. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 023403.	2.3	5
34	Temporal modulation of collective cell behavior controls vascular network topology. ELife, 2016, 5, .	6.0	20
35	Thermodynamic characterization of networks using graph polynomials. Physical Review E, 2015, 92, 032810.	2.1	28
36	Automated high-content morphological analysis of muscle fiber histology. Computers in Biology and Medicine, 2015, 63, 28-35.	7.0	15

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37	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
38	A framework for evaluating complex networks measurements. Europhysics Letters, 2015, 110, 68002.	2.0	3
39	A Systematic Comparison of Supervised Classifiers. PLoS ONE, 2014, 9, e94137.	2.5	162
40	Correlations between climate network and relief data. Nonlinear Processes in Geophysics, 2014, 21, 1127-1132.	1.3	13
41	Random walks in directed modular networks. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12003.	2.3	4
42	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
43	Sensory-Related Neural Activity Regulates the Structure of Vascular Networks in the Cerebral Cortex. Neuron, 2014, 83, 1117-1130.	8.1	131
44	Approximate von Neumann entropy for directed graphs. Physical Review E, 2014, 89, 052804.	2.1	45
45	Statistical physics approach to quantifying differences in myelinated nerve fibers. Scientific Reports, 2014, 4, 4511.	3.3	9
46	Shape, connectedness and dynamics in neuronal networks. Journal of Neuroscience Methods, 2013, 220, 100-115.	2.5	6
47	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
48	The relationship between structure and function in locally observed complex networks. New Journal of Physics, 2013, 15, 013048.	2.9	6
49	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
50	Identifying the starting point of a spreading process in complex networks. Physical Review E, 2011, 84, 056105.	2.1	153