Matheus Viana

List of Publications by Year
in descending order

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48 papers	2,406 citations	304743 22 h-index	243625 44 g-index
51 all docs	51 docs citations	51 times ranked	3482 citing authors

#	Article	IF	Citations
1	Mitochondrial Fission and Fusion Dynamics Generate Efficient, Robust, and Evenly Distributed Network Topologies in Budding Yeast Cells. Cell Systems, 2020, 10, 287-297.e5.	6.2	37
2	Mitochondrial volume fraction and translation duration impact mitochondrial mRNA localization and protein synthesis. ELife, 2020, 9, .	6.0	36
3	A New Open Source Toolkit for Segmenting 3D Intracellular Structures in Microscopy Images. Biophysical Journal, 2019, 116, 290a.	0.5	0
4	Predicting breast tumor proliferation from whole-slide images: The TUPAC16 challenge. Medical Image Analysis, 2019, 54, 111-121.	11.6	182
5	Methods for imaging mammalian mitochondrial morphology: AÂprospective on MitoGraph. Analytical Biochemistry, 2018, 552, 81-99.	2.4	60
6	Mapping road network communities for guiding disease surveillance and control strategies. Scientific Reports, 2018, 8, 4744.	3.3	24
7	Characterizing the Trabecular Bone Tissue of the Toco Toucan Bill. , 2018, , .		0
8	A mathematical model for thermoregulation in endotherms including heat transport by blood flow and thermal feedback control mechanisms: changes in coat, metabolic rate, blood fluxes, ventilation and sweating rates. Letters in Biomathematics, 2018, 5, 129-173.	0.1	4
9	Imaging and Quantifying Mitochondrial Morphology: a Focus on the 3D Freeware MitoGraph. FASEB Journal, 2018, 32, lb185.	0.5	0
10	Effects of stereochemistry, saturation, and hydrocarbon chain length on the ability of synthetic constrained azacyclic sphingolipids to trigger nutrient transporter down-regulation, vacuolation, and cell death. Bioorganic and Medicinal Chemistry, 2016, 24, 4390-4397.	3.0	11
11	Mechanosensing is critical for axon growth in the developing brain. Nature Neuroscience, 2016, 19, 1592-1598.	14.8	478
12	Mitochondrial anchorage and fusion contribute to mitochondrial inheritance and quality control in the budding yeast Saccharomyces cerevisiae. Molecular Biology of the Cell, 2016, 27, 776-787.	2.1	33
13	Accurate concentration control of mitochondria and nucleoids. Science, 2016, 351, 169-172.	12.6	78
14	Automated high-content morphological analysis of muscle fiber histology. Computers in Biology and Medicine, 2015, 63, 28-35.	7.0	15
15	Quantifying mitochondrial content in living cells. Methods in Cell Biology, 2015, 125, 77-93.	1.1	60
16	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
17	Random walks in directed modular networks. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12003.	2.3	4
18	Archetypes and Outliers in the Neuromorphological Space. Springer Series in Computational Neuroscience, 2014, , 41-59.	0.3	1

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19	On time-varying collaboration networks. Journal of Informetrics, 2013, 7, 371-378.	2.9	43
20	The relationship between structure and function in locally observed complex networks. New Journal of Physics, 2013, 15, 013048.	2.9	6
21	Accessibility in networks: A useful measure for understanding social insect nest architecture. Chaos, Solitons and Fractals, 2013, 46, 38-45.	5.1	13
22	Urban Street Networks, a Comparative Analysis of Ten European Cities. Environment and Planning B: Planning and Design, 2013, 40, 1071-1086.	1.7	82
23	The simplicity of planar networks. Scientific Reports, 2013, 3, 3495.	3.3	40
24	The Structure of Spatial Networks and Communities in Bicycle Sharing Systems. PLoS ONE, 2013, 8, e74685.	2.5	86
25	Effective number of accessed nodes in complex networks. Physical Review E, 2012, 85, 036105.	2.1	24
26	Prominent Effect of Soil Network Heterogeneity on Microbial Invasion. Physical Review Letters, 2012, 109, 098102.	7.8	31
27	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
28	Mitochondrial Network Size Scaling in Budding Yeast. Science, 2012, 338, 822-824.	12.6	158
29	Predicting epidemic outbreak from individual features of the spreaders. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P07005.	2.3	22
30	Morphological Homogeneity of Neurons: Searching for Outlier Neuronal Cells. Neuroinformatics, 2012, 10, 379-389.	2.8	9
31	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. Advances in Physics, 2011, 60, 329-412.	14.4	532
32	Fast long-range connections in transportation networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1626-1629.	2.1	12
33	Investigating relationships within and between category networks in Wikipedia. Journal of Informetrics, 2011, 5, 431-438.	2.9	24
34	The Effect of Host Morphology on Network Characteristics and Thermodynamical Properties of Ising Model Defined on the Network of Human Pyramidal Neurons. Communications in Computer and Information Science, 2011, , 96-107.	0.5	0
35	Characterizing topological and dynamical properties of complex networks without border effects. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1771-1778.	2.6	5
36	Unveiling the Neuromorphological Space. Frontiers in Computational Neuroscience, 2010, 4, 150.	2.1	33

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37	On the efficiency of transportation systems in large cities. Europhysics Letters, 2010, 91, 18003.	2.0	26
38	Identifying the borders of mathematical knowledge. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 325202.	2.1	12
39	Border detection in complex networks. New Journal of Physics, 2009, 11, 063019.	2.9	24
40	Biologica invasion in soil: Complex network analysis. , 2009, , .		2
41	Modularity and robustness of bone networks. Molecular BioSystems, 2009, 5, 255.	2.9	25
42	Objective characterization of the course of the parasellar internal carotid artery using mathematical tools. Surgical and Radiologic Anatomy, 2008, 30, 519-526.	1.2	16
43	Threeâ€dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. Journal of Anatomy, 2008, 212, 636-644.	1.5	13
44	Complex channel networks of bone structure. Applied Physics Letters, 2006, 88, 033903.	3.3	13
45	A spectral framework for sperm shape characterization. Computers in Biology and Medicine, 2005, 35, 463-473.	7.0	13
46	A comparison of morphometric characteristics of sperm from fertile Bos taurus and Bos indicus bulls in Brazil. Animal Reproduction Science, 2005, 85, 105-116.	1.5	43
47	A spectral framework for sperm shape characterization. Computers in Biology and Medicine, 2005, 35, 463-473.	7.0	4
48	A computational approach to characterization of bovine sperm chromatin alterations. Biotechnic and Histochemistry, 2004, 79, 17-23.	1.3	13