## Matheus Viana

List of Publications by Year in descending order

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Ματήξιις Μίανια

#	Article	IF	CITATIONS
1	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. Advances in Physics, 2011, 60, 329-412.	14.4	532
2	Mechanosensing is critical for axon growth in the developing brain. Nature Neuroscience, 2016, 19, 1592-1598.	14.8	478
3	Predicting breast tumor proliferation from whole-slide images: The TUPAC16 challenge. Medical Image Analysis, 2019, 54, 111-121.	11.6	182
4	Mitochondrial Network Size Scaling in Budding Yeast. Science, 2012, 338, 822-824.	12.6	158
5	The Structure of Spatial Networks and Communities in Bicycle Sharing Systems. PLoS ONE, 2013, 8, e74685.	2.5	86
6	Urban Street Networks, a Comparative Analysis of Ten European Cities. Environment and Planning B: Planning and Design, 2013, 40, 1071-1086.	1.7	82
7	Accurate concentration control of mitochondria and nucleoids. Science, 2016, 351, 169-172.	12.6	78
8	Quantifying mitochondrial content in living cells. Methods in Cell Biology, 2015, 125, 77-93.	1.1	60
9	Methods for imaging mammalian mitochondrial morphology: AÂprospective on MitoGraph. Analytical Biochemistry, 2018, 552, 81-99.	2.4	60
10	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
11	On time-varying collaboration networks. Journal of Informetrics, 2013, 7, 371-378.	2.9	43
12	The simplicity of planar networks. Scientific Reports, 2013, 3, 3495.	3.3	40
13	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
14	Mitochondrial volume fraction and translation duration impact mitochondrial mRNA localization and protein synthesis. ELife, 2020, 9, .	6.0	36
15	Unveiling the Neuromorphological Space. Frontiers in Computational Neuroscience, 2010, 4, 150.	2.1	33
16	Mitochondrial anchorage and fusion contribute to mitochondrial inheritance and quality control in the budding yeast <i>Saccharomyces cerevisiae</i> . Molecular Biology of the Cell, 2016, 27, 776-787.	2.1	33
17	Prominent Effect of Soil Network Heterogeneity on Microbial Invasion. Physical Review Letters, 2012, 109, 098102.	7.8	31
18	On the efficiency of transportation systems in large cities. Europhysics Letters, 2010, 91, 18003.	2.0	26

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19	Modularity and robustness of bone networks. Molecular BioSystems, 2009, 5, 255.	2.9	25
20	Border detection in complex networks. New Journal of Physics, 2009, 11, 063019.	2.9	24
21	Investigating relationships within and between category networks in Wikipedia. Journal of Informetrics, 2011, 5, 431-438.	2.9	24
22	Effective number of accessed nodes in complex networks. Physical Review E, 2012, 85, 036105.	2.1	24
23	Mapping road network communities for guiding disease surveillance and control strategies. Scientific Reports, 2018, 8, 4744.	3.3	24
24	Predicting epidemic outbreak from individual features of the spreaders. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P07005.	2.3	22
25	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
26	Automated high-content morphological analysis of muscle fiber histology. Computers in Biology and Medicine, 2015, 63, 28-35.	7.0	15
27	A computational approach to characterization of bovine sperm chromatin alterations. Biotechnic and Histochemistry, 2004, 79, 17-23.	1.3	13
28	A spectral framework for sperm shape characterization. Computers in Biology and Medicine, 2005, 35, 463-473.	7.0	13
29	Complex channel networks of bone structure. Applied Physics Letters, 2006, 88, 033903.	3.3	13
30	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
31	Accessibility in networks: A useful measure for understanding social insect nest architecture. Chaos, Solitons and Fractals, 2013, 46, 38-45.	5.1	13
32	Identifying the borders of mathematical knowledge. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 325202.	2.1	12
33	Fast long-range connections in transportation networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1626-1629.	2.1	12
34	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
35	Morphological Homogeneity of Neurons: Searching for Outlier Neuronal Cells. Neuroinformatics, 2012, 10, 379-389.	2.8	9
36	The relationship between structure and function in locally observed complex networks. New Journal of Physics, 2013, 15, 013048.	2.9	6

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37	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
38	Random walks in directed modular networks. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P12003.	2.3	4
39	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
40	A spectral framework for sperm shape characterization. Computers in Biology and Medicine, 2005, 35, 463-473.	7.0	4
41	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
42	Biologica invasion in soil: Complex network analysis. , 2009, , .		2
43	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
44	Archetypes and Outliers in the Neuromorphological Space. Springer Series in Computational Neuroscience, 2014, , 41-59.	0.3	1
45	Characterizing the Trabecular Bone Tissue of the Toco Toucan Bill. , 2018, , .		0
46	A New Open Source Toolkit for Segmenting 3D Intracellular Structures in Microscopy Images. Biophysical Journal, 2019, 116, 290a.	0.5	0
47	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
48	Imaging and Quantifying Mitochondrial Morphology: a Focus on the 3D Freeware MitoGraph. FASEB Journal, 2018, 32, lb185.	0.5	0