Antonio Martinez-Sanchez

List of Publications by Year
in descending order

22 papers	1,672 citations	623734 14 h-index	752698 20 g-index
33 all docs	33 docs citations	33 times ranked	2150 citing authors

#	Article	IF	Citations
1	In Situ Structure of Neuronal C9orf72 Poly-GA Aggregates Reveals Proteasome Recruitment. Cell, 2018, 172, 696-705.e12.	28.9	311
2	The Eukaryotic CO2-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. Cell, 2017, 171, 148-162.e19.	28.9	298
3	In Situ Architecture and Cellular Interactions of PolyQ Inclusions. Cell, 2017, 171, 179-187.e10.	28.9	271
4	Robust membrane detection based on tensor voting for electron tomography. Journal of Structural Biology, 2014, 186, 49-61.	2.8	169
5	Tricalbin-Mediated Contact Sites Control ER Curvature to Maintain Plasma Membrane Integrity. Developmental Cell, 2019, 51, 476-487.e7.	7.0	87
6	Deep learning improves macromolecule identification in 3D cellular cryo-electron tomograms. Nature Methods, 2021, 18, 1386-1394.	19.0	84
7	The structural basis of Rubisco phase separation in the pyrenoid. Nature Plants, 2020, 6, 1480-1490.	9.3	68
8	In situ architecture of neuronal Î±-Synuclein inclusions. Nature Communications, 2021, 12, 2110.	12.8	66
9	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. Nature Methods, 2020, 17, 209-216.	19.0	60
10	The Architecture of Traveling Actin Waves Revealed by Cryo-Electron Tomography. Structure, 2019, 27, 1211-1223.e5.	3.3	53
11	A differential structure approach to membrane segmentation in electron tomography. Journal of Structural Biology, 2011, 175, 372-383.	2.8	41
12	Dynamic instability of clathrin assembly provides proofreading control for endocytosis. Journal of Cell Biology, 2019, 218, 3200-3211.	5.2	41
13	Reliable estimation of membrane curvature for cryo-electron tomography. PLoS Computational Biology, 2020, 16, e1007962.	3.2	23
14	Trans-synaptic assemblies link synaptic vesicles and neuroreceptors. Science Advances, 2021, 7, .	10.3	23
15	A ridge-based framework for segmentation of 3D electron microscopy datasets. Journal of Structural Biology, 2013, 181, 61-70.	2.8	16
16	TomoEED: fast edge-enhancing denoising of tomographic volumes. Bioinformatics, 2018, 34, 3776-3778.	4.1	15
17	MemBrain: A deep learning-aided pipeline for detection of membrane proteins in Cryo-electron tomograms. Computer Methods and Programs in Biomedicine, 2022, 224, 106990.	4.7	15
18	Statistical spatial analysis for cryo-electron tomography. Computer Methods and Programs in Biomedicine, 2022, 218, 106693.	4.7	8

#	Article	IF	Citations
19	A Novel Method to Increase LinLog CMOS Sensorsâ€™ Performance in High Dynamic Range Scenarios. Sensors, 2011, 11, 8412-8429.	3.8	7
20	Tricalbin-Mediated Contact Sites Control ER Curvature to Maintain Plasma Membrane Integrity. SSRN Electronic Journal, 0, , .	0.4	2
21	PySeg in Scipion: making easier template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, a231-a231.	0.1	1
22	A generic model for ridges: A new framework to characterise biological planar structures. , 2012, , .		0