Julia Mahamid

List of Publications by Year
in descending order

41 papers	7,449 citations	218677 26 h-index	302126 39 g-index
64 all docs	64 docs citations	64 times ranked	7371 citing authors

#	Article	IF	Citations
1	Liquid-to-solid phase transition of oskar ribonucleoprotein granules is essential for their function in Drosophila embryonic development. Cell, 2022, 185, 1308-1324.e23.	28.9	47
2	Mechanism of RNA polymerase I selection by transcription factor UAF. Science Advances, 2022, 8, eabn5725.	10.3	9
3	Stress fibres are embedded in a contractile cortical network. Nature Materials, 2021, 20, 410-420.	27.5	73
4	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.5â€‰Ã… in cells. Nature Methods, 2021, 18, 186-193.	19.0	265
5	High-precision targeting workflow for volume electron microscopy. Journal of Cell Biology, 2021, 220, .	5.2	33
6	Locating macromolecular assemblies in cells by 2D template matching with cisTEM. ELife, 2021, 10, .	6.0	55
7	Interphase epichromatin: last refuge for the 30-nm chromatin fiber?. Chromosoma, 2021, 130, 91-102.	2.2	7
8	Molecular views into cellular functions by in-cell cryo-electron tomography. Microscopy and Microanalysis, 2021, 27, 2076-2076.	0.4	0
9	Intracellular nanoscale architecture as a master regulator of calcium carbonate crystallization in marine microalgae. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
10	Nuclear pores dilate and constrict in cellulo. Science, 2021, 374, eabd9776.	12.6	162
11	A modular platform for automated cryo-FIB workflows. ELife, 2021, 10, .	6.0	65
12	Determinants shaping the nanoscale architecture of the mouse rod outer segment. ELife, 2021, 10, .	6.0	25
13	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies. Nature Methods, 2020, 17, 50-54.	19.0	67
14	Cryoelectron Tomography Reveals Nanoscale Organization of the Cytoskeleton and Its Relation to Microtubule Curvature Inside Cells. Structure, 2020, 28, 991-1003.e4.	3.3	32
15	Visualizing Molecular Architectures of Cellular Condensates: Hints of Complex Coacervation Scenarios. Developmental Cell, 2020, 55, 97-107.	7.0	15
16	In-cell architecture of an actively transcribing-translating expressome. Science, 2020, 369, 554-557.	12.6	192
17	Addressing the challenge of in situ structural studies of RNP granules in light of emerging opportunities. Current Opinion in Structural Biology, 2020, 65, 149-158.	5.7	3
18	In-cell architecture of the nuclear pore and snapshots of its turnover. Nature, 2020, 586, 796-800.	27.8	139

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19	Protein condensates as aging Maxwell fluids. Science, 2020, 370, 1317-1323.	12.6	247
20	TEM bright field imaging of thick specimens: nodes in Thon ring patterns. Ultramicroscopy, 2020, 216, 113023.	1.9	10
21	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. Cell, 2020, 181, 346-361.e17.	28.9	557
22	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. Journal of Biological Chemistry, 2019, 294, 14215-14230.	3.4	64
23	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. Nature Methods, 2019, 16, 757-762.	19.0	165
24	Liquid-crystalline phase transitions in lipid droplets are related to cellular states and specific organelle association. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16866-16871.	7.1	64
25	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. Science, 2019, 363, 396-400.	12.6	153
26	Phase separation of a yeast prion protein promotes cellular fitness. Science, 2018, 359, .	12.6	534
27	Cryo-FIB Lamella Milling: A Comprehensive Technique to Prepare Samples of Both Plunge- and High-pressure Frozen-hydrated Specimens for in situ Studies.. Microscopy and Microanalysis, 2018, 24, 820-821.	0.4	5
28	Unravelling molecular complexity in structural cell biology. Current Opinion in Structural Biology, 2018, 52, 111-118.	5.7	54
29	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. Cell, 2017, 169, 1066-1077.e10.	28.9	533
30	Challenges of Integrating Stochastic Dynamics and Cryo-Electron Tomograms in Whole-Cell Simulations. Journal of Physical Chemistry B, 2017, 121, 3871-3881.	2.6	14
31	Charting Molecular Landscapes Using Cryo-Electron Tomography. Microscopy Today, 2017, 25, 26-31.	0.3	0
32	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. Journal of Structural Biology, 2017, 197, 73-82.	2.8	216
33	Site Specific Cryo-FIB Preparations Aimed at in situ Cryo-Electron Tomography. Microscopy and Microanalysis, 2017, 23, 250-251.	0.4	0
34	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. Cell, 2016, 166, 1572-1584.e16.	28.9	283
35	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. Biophysical Journal, 2016, 110, 860-869.	0.5	172
36	Visualizing the molecular sociology at the HeLa cell nuclear periphery. Science, 2016, 351, 969-972.	12.6	493

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37	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. Microscopy and Microanalysis, 2015, 21, 1119-1120.	0.4	2
38	Regulated assembly of a supramolecular centrosome scaffold in vitro. Science, 2015, 348, 808-812.	12.6	170
39	A focused ion beam milling and lift-out approach for site-specific preparation of frozen-hydrated lamellas from multicellular organisms. Journal of Structural Biology, 2015, 192, 262-269.	2.8	125
40	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. Cell, 2015, 162, 1066-1077.	28.9	2,182
41	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. Bio-protocol, 2015, 5, .	0.4	105