Julia Mahamid

List of Publications by Year in Descending Order

49 papers	4,206 citations	22 h-index	64 g-index
64 ext. papers	6,033 ext. citations	18.5 avg, IF	5.58 L-index

#	Paper	IF	Citations
49	Mechanism of RNA polymerase I selection by transcription factor UAF.. *Science Advances*, **2022**, 8, eabn5725	14.3	1
48	Nuclear pores dilate and constrict in cellulo. *Science*, **2021**, 374, eabd9776	33.3	32
47	A modular platform for automated cryo-FIB workflows.. *ELife*, **2021**, 10,	8.9	8
46	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,	11.5	5
45	High-precision targeting workflow for volume electron microscopy. *Journal of Cell Biology*, **2021**, 220,	7.3	9
44	Locating macromolecular assemblies in cells by 2D template matching with cisTEM. *ELife*, **2021**, 10,	8.9	7
43	Interphase epichromatin: last refuge for the 30-nm chromatin fiber?. *Chromosoma*, **2021**, 130, 91-102	2.8	2
42	Molecular views into cellular functions by in-cell cryo-electron tomography. *Microscopy and Microanalysis*, **2021**, 27, 2076-2076	0.5	
41	Stress fibres are embedded in a contractile cortical network. *Nature Materials*, **2021**, 20, 410-420	27	20
40	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.5 Å in cells. *Nature Methods*, **2021**, 18, 186-193	21.6	78
39	Determinants shaping the nanoscale architecture of the mouse rod outer segment.. *ELife*, **2021**, 10,	8.9	3
38	Protein condensates as aging Maxwell fluids. *Science*, **2020**, 370, 1317-1323	33.3	75
37	TEM bright field imaging of thick specimens: nodes in Thon ring patterns. *Ultramicroscopy*, **2020**, 216, 113023	3.1	4
36	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies. *Nature Methods*, **2020**, 17, 50-54	21.6	38
35	Cryoelectron Tomography Reveals Nanoscale Organization of the Cytoskeleton and Its Relation to Microtubule Curvature Inside Cells. *Structure*, **2020**, 28, 991-1003.e4	5.2	12
34	Visualizing Molecular Architectures of Cellular Condensates: Hints of Complex Coacervation Scenarios. *Developmental Cell*, **2020**, 55, 97-107	10.2	4
33	In-cell architecture of an actively transcribing-translating expressome. *Science*, **2020**, 369, 554-557	33.3	82

32	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	8.1	1
31	In-cell architecture of the nuclear pore and snapshots of its turnover. *Nature*, **2020**, 586, 796-800	50.4	71
30	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. *Cell*, **2020**, 181, 346-361.e17	56.2	243
29	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. *Science*, **2019**, 363, 396-400	33.3	89
28	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. *Journal of Biological Chemistry*, **2019**, 294, 14215-14230	5.4	34
27	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. *Nature Methods*, **2019**, 16, 757-762	21.6	90
26	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	11.5	28
25	Phase separation of a yeast prion protein promotes cellular fitness. *Science*, **2018**, 359,	33.3	344
24	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	0.5	0
23	Unravelling molecular complexity in structural cell biology. *Current Opinion in Structural Biology*, **2018**, 52, 111-118	8.1	36
22	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. *Cell*, **2017**, 169, 1066-1077.e10	56.2	330
21	Challenges of Integrating Stochastic Dynamics and Cryo-Electron Tomograms in Whole-Cell Simulations. *Journal of Physical Chemistry B*, **2017**, 121, 3871-3881	3.4	9
20	Charting Molecular Landscapes Using Cryo-Electron Tomography. *Microscopy Today*, **2017**, 25, 26-31	0.4	
19	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. *Journal of Structural Biology*, **2017**, 197, 73-82	3.4	143
18	Site Specific Cryo-FIB Preparations Aimed at in situ Cryo-Electron Tomography. *Microscopy and Microanalysis*, **2017**, 23, 250-251	0.5	
17	Enabling and doing structural biology in situ **2016**, 113-113		
16	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. *Cell*, **2016**, 166, 1572-1584.e16	56.2	206
15	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. *Biophysical Journal*, **2016**, 110, 860-9	2.9	122

14	Visualizing the molecular sociology at the HeLa cell nuclear periphery. *Science*, **2016**, 351, 969-72	33.3	344
13	Centrosomes. Regulated assembly of a supramolecular centrosome scaffold in vitro. *Science*, **2015**, 348, 808-12	33.3	125
12	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, 262-9	3.4	96
11	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. *Cell*, **2015**, 162, 1066-77	56.2	1388
10	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. *Microscopy and Microanalysis*, **2015**, 21, 1119-1120	0.5	2
9	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. *Bio-protocol*, **2015**, 5,	0.9	72
8	In cell architecture of the nuclear pore complex and snapshots of its turnover		4
7	In-cell architecture of an actively transcribing-translating expressome		9
6	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.7 Inside cells		11
5	Nuclear pores constrict upon energy depletion		14
4	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies		1
3	Locating Macromolecular Assemblies in Cells by 2D Template Matching with cisTEM		1
2	Liquid-to-solid phase transition ofoskarRNP granules is essential for their function in theDrosophilagermline		1
1	A Modular Platform for Streamlining Automated Cryo-FIB Workflows		2