

# Julia Mahamid

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

7,449  
citations

218381  
26  
h-index

301761  
39  
g-index

64  
all docs

64  
docs citations

64  
times ranked

7371  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , 2015, 162, 1066-1077.	13.5	2,182
2	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. <i>Cell</i> , 2020, 181, 346-361.e17.	13.5	557
3	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , 2018, 359, .	6.0	534
4	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. <i>Cell</i> , 2017, 169, 1066-1077.e10.	13.5	533
5	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016, 351, 969-972.	6.0	493
6	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. <i>Cell</i> , 2016, 166, 1572-1584.e16.	13.5	283
7	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.5Å in cells. <i>Nature Methods</i> , 2021, 18, 186-193.	9.0	265
8	Protein condensates as aging Maxwell fluids. <i>Science</i> , 2020, 370, 1317-1323.	6.0	247
9	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. <i>Journal of Structural Biology</i> , 2017, 197, 73-82.	1.3	216
10	In-cell architecture of an actively transcribing-translating expressome. <i>Science</i> , 2020, 369, 554-557.	6.0	192
11	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. <i>Biophysical Journal</i> , 2016, 110, 860-869.	0.2	172
12	Regulated assembly of a supramolecular centrosome scaffold in vitro. <i>Science</i> , 2015, 348, 808-812.	6.0	170
13	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native <i>Caenorhabditis elegans</i> tissue. <i>Nature Methods</i> , 2019, 16, 757-762.	9.0	165
14	Nuclear pores dilate and constrict in cellulo. <i>Science</i> , 2021, 374, eabd9776.	6.0	162
15	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. <i>Science</i> , 2019, 363, 396-400.	6.0	153
16	In-cell architecture of the nuclear pore and snapshots of its turnover. <i>Nature</i> , 2020, 586, 796-800.	13.7	139
17	A focused ion beam milling and lift-out approach for site-specific preparation of frozen-hydrated lamellas from multicellular organisms. <i>Journal of Structural Biology</i> , 2015, 192, 262-269.	1.3	125
18	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. <i>Bio-protocol</i> , 2015, 5, .	0.2	105

#	ARTICLE	IF	CITATIONS
19	Stress fibres are embedded in a contractile cortical network. <i>Nature Materials</i> , 2021, 20, 410-420.	13.3	73
20	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies. <i>Nature Methods</i> , 2020, 17, 50-54.	9.0	67
21	A modular platform for automated cryo-FIB workflows. <i>ELife</i> , 2021, 10, .	2.8	65
22	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , 2019, 294, 14215-14230.	1.6	64
23	Liquid-crystalline phase transitions in lipid droplets are related to cellular states and specific organelle association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16866-16871.	3.3	64
24	Locating macromolecular assemblies in cells by 2D template matching with cisTEM. <i>ELife</i> , 2021, 10, .	2.8	55
25	Unravelling molecular complexity in structural cell biology. <i>Current Opinion in Structural Biology</i> , 2018, 52, 111-118.	2.6	54
26	Liquid-to-solid phase transition of oskar ribonucleoprotein granules is essential for their function in <i>Drosophila</i> embryonic development. <i>Cell</i> , 2022, 185, 1308-1324.e23.	13.5	47
27	High-precision targeting workflow for volume electron microscopy. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	33
28	Cryoelectron Tomography Reveals Nanoscale Organization of the Cytoskeleton and Its Relation to Microtubule Curvature Inside Cells. <i>Structure</i> , 2020, 28, 991-1003.e4.	1.6	32
29	Determinants shaping the nanoscale architecture of the mouse rod outer segment. <i>ELife</i> , 2021, 10, .	2.8	25
30	Intracellular nanoscale architecture as a master regulator of calcium carbonate crystallization in marine microalgae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
31	Visualizing Molecular Architectures of Cellular Condensates: Hints of Complex Coacervation Scenarios. <i>Developmental Cell</i> , 2020, 55, 97-107.	3.1	15
32	Challenges of Integrating Stochastic Dynamics and Cryo-Electron Tomograms in Whole-Cell Simulations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3871-3881.	1.2	14
33	TEM bright field imaging of thick specimens: nodes in Thon ring patterns. <i>Ultramicroscopy</i> , 2020, 216, 113023.	0.8	10
34	Mechanism of RNA polymerase I selection by transcription factor UAF. <i>Science Advances</i> , 2022, 8, eabn5725.	4.7	9
35	Interphase epichromatin: last refuge for the 30-nm chromatin fiber?. <i>Chromosoma</i> , 2021, 130, 91-102.	1.0	7
36	Cryo-FIB Lamella Milling: A Comprehensive Technique to Prepare Samples of Both Plunge- and High-pressure Frozen-hydrated Specimens for in situ Studies.. <i>Microscopy and Microanalysis</i> , 2018, 24, 820-821.	0.2	5

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37	Addressing the challenge of in situ structural studies of RNP granules in light of emerging opportunities. <i>Current Opinion in Structural Biology</i> , 2020, 65, 149-158.	2.6	3
38	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. <i>Microscopy and Microanalysis</i> , 2015, 21, 1119-1120.	0.2	2
39	Charting Molecular Landscapes Using Cryo-Electron Tomography. <i>Microscopy Today</i> , 2017, 25, 26-31.	0.2	0
40	Site Specific Cryo-FIB Preparations Aimed at in situ Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 250-251.	0.2	0
41	Molecular views into cellular functions by in-cell cryo-electron tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 2076-2076.	0.2	0