

# Julia Mahamid

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Liquid-to-Solid Phase Transition of the ALS Protein FUS Accelerated by Disease Mutation. <i>Cell</i> , <b>2015</b> , 162, 1066-77	56.2	1388
48	Phase separation of a yeast prion protein promotes cellular fitness. <i>Science</i> , <b>2018</b> , 359,	33.3	344
47	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , <b>2016</b> , 351, 969-72	33.3	344
46	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. <i>Cell</i> , <b>2017</b> , 169, 1066-1077.e10	56.2	330
45	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. <i>Cell</i> , <b>2020</b> , 181, 346-361.e17	56.2	243
44	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. <i>Cell</i> , <b>2016</b> , 166, 1572-1584.e16	56.2	206
43	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. <i>Journal of Structural Biology</i> , <b>2017</b> , 197, 73-82	3.4	143
42	Centrosomes. Regulated assembly of a supramolecular centrosome scaffold in vitro. <i>Science</i> , <b>2015</b> , 348, 808-12	33.3	125
41	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. <i>Biophysical Journal</i> , <b>2016</b> , 110, 860-9	2.9	122
40	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> , <b>2015</b> , 192, 262-9	3.4	96
39	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native <i>Caenorhabditis elegans</i> tissue. <i>Nature Methods</i> , <b>2019</b> , 16, 757-762	21.6	90
38	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. <i>Science</i> , <b>2019</b> , 363, 396-400	33.3	89
37	In-cell architecture of an actively transcribing-translating expressome. <i>Science</i> , <b>2020</b> , 369, 554-557	33.3	82
36	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.5 Å in cells. <i>Nature Methods</i> , <b>2021</b> , 18, 186-193	21.6	78
35	Protein condensates as aging Maxwell fluids. <i>Science</i> , <b>2020</b> , 370, 1317-1323	33.3	75
34	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. <i>Bio-protocol</i> , <b>2015</b> , 5,	0.9	72
33	In-cell architecture of the nuclear pore and snapshots of its turnover. <i>Nature</i> , <b>2020</b> , 586, 796-800	50.4	71

32	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies. <i>Nature Methods</i> , <b>2020</b> , 17, 50-54	21.6	38
31	Unravelling molecular complexity in structural cell biology. <i>Current Opinion in Structural Biology</i> , <b>2018</b> , 52, 111-118	8.1	36
30	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 14215-14230	5.4	34
29	Nuclear pores dilate and constrict in cellulose. <i>Science</i> , <b>2021</b> , 374, eabd9776	33.3	32
28	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> , <b>2019</b> , 116, 16866-16871	11.5	28
27	Stress fibres are embedded in a contractile cortical network. <i>Nature Materials</i> , <b>2021</b> , 20, 410-420	27	20
26	Nuclear pores constrict upon energy depletion		14
25	Cryoelectron Tomography Reveals Nanoscale Organization of the Cytoskeleton and Its Relation to Microtubule Curvature Inside Cells. <i>Structure</i> , <b>2020</b> , 28, 991-1003.e4	5.2	12
24	Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.7 Å inside cells		11
23	Challenges of Integrating Stochastic Dynamics and Cryo-Electron Tomograms in Whole-Cell Simulations. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 3871-3881	3.4	9
22	In-cell architecture of an actively transcribing-translating expressome		9
21	High-precision targeting workflow for volume electron microscopy. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	9
20	A modular platform for automated cryo-FIB workflows.. <i>ELife</i> , <b>2021</b> , 10,	8.9	8
19	Locating macromolecular assemblies in cells by 2D template matching with cisTEM. <i>ELife</i> , <b>2021</b> , 10,	8.9	7
18	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> , <b>2021</b> , 118,	11.5	5
17	TEM bright field imaging of thick specimens: nodes in Thon ring patterns. <i>Ultramicroscopy</i> , <b>2020</b> , 216, 113023	3.1	4
16	In cell architecture of the nuclear pore complex and snapshots of its turnover		4
15	Visualizing Molecular Architectures of Cellular Condensates: Hints of Complex Coacervation Scenarios. <i>Developmental Cell</i> , <b>2020</b> , 55, 97-107	10.2	4

14	Determinants shaping the nanoscale architecture of the mouse rod outer segment.. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
13	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1119-1120	0.5	2
12	A Modular Platform for Streamlining Automated Cryo-FIB Workflows		2
11	Interphase epichromatin: last refuge for the 30-nm chromatin fiber?. <i>Chromosoma</i> , <b>2021</b> , 130, 91-102	2.8	2
10	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies		1
9	Addressing the challenge of in situ structural studies of RNP granules in light of emerging opportunities. <i>Current Opinion in Structural Biology</i> , <b>2020</b> , 65, 149-158	8.1	1
8	Locating Macromolecular Assemblies in Cells by 2D Template Matching with cisTEM		1
7	Liquid-to-solid phase transition of oskarRNP granules is essential for their function in the Drosophila germline		1
6	Mechanism of RNA polymerase I selection by transcription factor UAF.. <i>Science Advances</i> , <b>2022</b> , 8, eabn5725	7.5	1
5	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> , <b>2018</b> , 24, 820-821	0.5	0
4	Enabling and doing structural biology in situ <b>2016</b> , 113-113		
3	Charting Molecular Landscapes Using Cryo-Electron Tomography. <i>Microscopy Today</i> , <b>2017</b> , 25, 26-31	0.4	
2	Site Specific Cryo-FIB Preparations Aimed at in situ Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 250-251	0.5	
1	Molecular views into cellular functions by in-cell cryo-electron tomography. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 2076-2076	0.5	