Miroslava Schaffer

List of Publications by Year
in descending order

46 papers	4,048 citations	201385 27 h-index	301761 39 g-index
56 all docs	56 docs citations	56 times ranked	4627 citing authors

#	Article	IF	Citations
1	Visualizing the molecular sociology at the HeLa cell nuclear periphery. Science, 2016, 351, 969-972.	6.0	493
2	Sample preparation for atomic-resolution STEM at low voltages by FIB. Ultramicroscopy, 2012, 114, 62-71.	0.8	321
3	The Eukaryotic CO2-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. Cell, 2017, 171, 148-162.e19.	13.5	298
4	Native architecture of the Chlamydomonas chloroplast revealed by in situ cryo-electron tomography. ELife, 2015, 4, .	2.8	224
5	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. Journal of Structural Biology, 2017, 197, 73-82.	1.3	216
6	Opening windows into the cell: focused-ion-beam milling for cryo-electron tomography. Current Opinion in Structural Biology, 2013, 23, 771-777.	2.6	179
7	Determining the bacterial cell biology of Planctomycetes. Nature Communications, 2017, 8, 14853.	5.8	175
8	Structure of the membrane-assembled retromer coat determined by cryo-electron tomography. Nature, 2018, 561, 561-564.	13.7	169
9	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. Nature Methods, 2019, 16, 757-762.	9.0	165
10	The structure of the COPI coat determined within the cell. ELife, 2017, 6, .	2.8	152
11	Dissecting the molecular organization of the translocon-associated protein complex. Nature Communications, 2017, 8, 14516.	5.8	131
12	Proteasomes tether to two distinct sites at the nuclear pore complex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13726-13731.	3.3	123
13	A helical inner scaffold provides a structural basis for centriole cohesion. Science Advances, 2020, 6, eaaz4137.	4.7	116
14	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. Nature Plants, 2019, 5, 436-446.	4.7	114
15	Preparing samples from whole cells using focused-ion-beam milling for cryo-electron tomography. Nature Protocols, 2020, 15, 2041-2070.	5.5	114
16	In situ architecture of the algal nuclear pore complex. Nature Communications, 2018, 9, 2361.	5.8	107
17	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. Bio-protocol, 2015, 5, .	0.2	105
18	In situ structural analysis of Golgi intracisternal protein arrays. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11264-11269.	3.3	94

#	Article	IF	Citations
19	Direct Insight into Grain Boundary Reconstruction in Polycrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Cu</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>In</mml:mi><mml:mo>,</mml:mo><mml:mi>Ga</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rg BT Atomic Resolution. Physical Review Letters, 2012, 108, 075502.	2.9	84
20	Confined and Chemically Flexible Grain Boundaries in Polycrystalline Compound Semiconductors. Advanced Energy Materials, 2012, 2, 992-998.	10.2	84
21	Charting the native architecture of Chlamydomonas thylakoid membranes with single-molecule precision. ELife, 2020, 9, .	2.8	80
22	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity. Cell, 2021, 184, 3643-3659.e23.	13.5	76
23	Molecular and structural architecture of polyQ aggregates in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3446-E3453.	3.3	68
24	Direct visualization of degradation microcompartments at the ER membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1069-1080.	3.3	68
25	Cryoâ€electron tomographyâ€"the cell biology that came in from the cold. FEBS Letters, 2017, 591, 2520-2533.	1.3	56
26	Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. PLoS ONE, 2018, 13, e0197886.	1.1	34
27	Coordinate transformation based cryo-correlative methods for electron tomography and focused ion beam milling. Ultramicroscopy, 2014, 143, 15-23.	0.8	33
28	Architecture of the centriole cartwheelâ€containing region revealed by cryoâ€electron tomography. EMBO Journal, 2020, 39, e106246.	3.5	32
29	Block lift-out sample preparation for 3D experiments in a dual beam focused ion beam microscope. Mikrochimica Acta, 2008, 161, 421-425.	2.5	24
30	Removing Contamination-Induced Reconstruction Artifacts from Cryo-electron Tomograms. Biophysical Journal, 2016, 110, 850-859.	0.2	21
31	In situ Microfluidic Cryofixation for Cryo Focused Ion Beam Milling and Cryo Electron Tomography. Scientific Reports, 2019, 9, 19133.	1.6	18
32	The elusive actin cytoskeleton of a green alga expressing both conventional and divergent actins. Molecular Biology of the Cell, 2019, 30, 2827-2837.	0.9	14
33	Highâ€Yield Production, Characterization, and Functionalization of Recombinant Magnetosomes in the Synthetic Bacterium <i>Rhodospirillum rubrum â€œmagneticumâ€</i>. Advanced Biology, 2021, 5, e2101017.	1.4	12
34	Cryo-electron microscopy of an extremely halophilic microbe: technical aspects. Extremophiles, 2017, 21, 393-398.	0.9	5
35	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.	0.2	5
36	Opening Windows into the Cell: Focused-Ion-Beam Milling for Cryo-Electron Tomography. Biophysical Journal, 2014, 106, 600a.	0.2	3

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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.	0.2	2
38	Cryo-FIB Lift-out Sample Preparation Using a Novel Cryo-gripper Tool. Microscopy and Microanalysis, 2017, 23, 844-845.	0.2	2
39	Opening Windows into the Cell: Focused Ion Beam Micromachining of Eukaryotic Cells for Cryo-Electron Tomography. Biophysical Journal, 2013, 104, 353a-354a.	0.2	1
40	Automated X-Ray Elemental Analysis in Three Dimensions Using a Dual Beam-Focused Ion Beam System. Praktische Metallographie/Practical Metallography, 2007, 44, 248-250.	0.1	1
41	Structural Cell Biology: Preparing Specimens for Cryo-Electron Tomography Using Focused-Ion-Beam Milling. Microscopy and Microanalysis, 2014, 20, 1222-1223.	0.2	0
42	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. Microscopy and Microanalysis, 2014, 20, 208-209.	0.2	0
43	Cryo-FIB Sample Preparation for Cryo-ET With the Volta Phase Plate. Microscopy and Microanalysis, 2016, 22, 72-73.	0.2	0
44	Charting Molecular Landscapes Using Cryo-Electron Tomography. Microscopy Today, 2017, 25, 26-31.	0.2	0
45	Cryo-FIB: Overcoming the Hurdle of Sample Preparation for In Situ Cryo-Electron Tomography. Microscopy and Microanalysis, 2018, 24, 2326-2327.	0.2	0
46	The Eukaryotic CO22concentrating Organelle Is Liquiddlike and Exhibits Dynamic Reorganization. SSRN Electronic Journal, 0, , .	0.4	0