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## Towards Visual Proteomics at High Resolution

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#	Paper	IF	Citations
35	AlphaFold: A Special Issue and A Special Time for Protein Science. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167231	6.5	6
34	Cryogenic electron microscopy approaches that combine images and tilt series.. <i>Microscopy (Oxford, England)</i> , <b>2022</b> , 71, i15-i22	1.3	0
33	Exploring high-resolution cryo-ET and subtomogram averaging capabilities of contemporary DEDs.		
32	Label-free visual proteomics: Coupling MS- and EM-based approaches in structural biology.. <i>Molecular Cell</i> , <b>2022</b> , 82, 285-303	17.6	3
31	A surface morphometrics toolkit to quantify organellar membrane ultrastructure using cryo-electron tomography.		1
30	Quinone binding sites of cyt bc complexes analysed by X-ray crystallography and cryogenic electron microscopy.. <i>Biochemical Society Transactions</i> , <b>2022</b> ,	5.1	0
29	Generating Ensembles of Dynamic Misfolding Proteins.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 881534	5.1	1
28	Capturing actin assemblies in cells using in situ cryo-electron tomography.. <i>European Journal of Cell Biology</i> , <b>2022</b> , 101, 151224	6.1	0
27	Exploring high-resolution cryo-ET and subtomogram averaging capabilities of contemporary DEDs.. <i>Journal of Structural Biology</i> , <b>2022</b> , 214, 107852	3.4	1
26	Convolutional networks for supervised mining of molecular patterns within cellular context.		1
25	AlphaFold 2 and NMR Spectroscopy: Partners to Understand Protein Structure, Dynamics and Function. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9,	5.6	4
24	Integrating cellular and molecular structures and dynamics into whole-cell models. <i>Current Opinion in Structural Biology</i> , <b>2022</b> , 75, 102392	8.1	0
23	Automated vitrification of cryo-EM samples with controllable sample thickness using suction and real-time optical inspection. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	0
22	3D cryo-electron microscopic imaging of bacterial flagella: novel structural and mechanistic insights into cell motility. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 102105	5.4	1
21	Fluorescence CLEM in biology: historic developments and current super-resolution applications. <i>FEBS Letters</i> ,	3.8	0
20	A transformation clustering algorithm and its application in polyribosomes structural profiling. <i>Nucleic Acids Research</i> ,	20.1	0
19	Cryo-electron tomography: A long journey to the inner space of cells. <i>Cell</i> , <b>2022</b> , 185, 2649-2652	56.2	1

- 18 Membrane-anchored HDCR nanowires drive hydrogen-powered CO<sub>2</sub> fixation. *Nature*, **2022**, 607, 823-830. 0.4
- 17 Electron microscopy of cellular ultrastructure in three dimensions. **2022**, 76, 102444
- 16 Cryo-plasma FIB/SEM volume imaging of biological specimens.
- 15 Docking-based long timescale simulation of cell-size protein systems at atomic resolution. **2022**, 119,
- 14 EMPIAR: The Electron Microscopy Public Image Archive.
- 13 Structural investigation of eukaryotic cells: From the periphery to the interior by cryo-electron tomography. **2022**, 100923
- 12 Cryo-electron tomography: The power of seeing the whole picture. **2022**, 633, 26-28
- 11 Bridging the light-electron resolution gap with correlative cryo-SRRF and dual-axis cryo-STEM tomography.
- 10 Precision super-resolution cryo-correlative light and electron microscopy for rapid in situ structural analyses of optogenetically-positioned organelles.
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- 8 Deciphering the molecular mechanisms of actin cytoskeleton regulation in cell migration using cryo-EM.
- 7 Assessment of the Xenobiotics Toxicity Taking into Account Their Metabolism. **2023**, 21-51
- 6 Convolutional networks for supervised mining of molecular patterns within cellular context. **2023**, 20, 284-294
- 5 Quantifying organellar ultrastructure in cryo-electron tomography using a surface morphometrics pipeline. **2023**, 222,
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- 3 Cryo-Electron Tomography of *Toxoplasma gondii* Indicates That the Conoid Fiber May Be Derived from Microtubules. 2206595
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