David N Mastronarde

List of Publications by Year
in descending order

21 papers	12,974 citations	430874 18 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	15340 citing authors

#	Article	IF	Citations
1	Computer Visualization of Three-Dimensional Image Data Using IMOD. Journal of Structural Biology, 1996, 116, 71-76.	2.8	4,964
2	Automated electron microscope tomography using robust prediction of specimen movements. Journal of Structural Biology, 2005, 152, 36-51.	2.8	4,320
3	Dual-Axis Tomography: An Approach with Alignment Methods That Preserve Resolution. Journal of Structural Biology, 1997, 120, 343-352.	2.8	1,031
4	Automated tilt series alignment and tomographic reconstruction in IMOD. Journal of Structural Biology, 2017, 197, 102-113.	2.8	524
5	New views of cells in 3D: an introduction to electron tomography. Trends in Cell Biology, 2005, 15, 43-51.	7.9	378
6	Software tools for automated transmission electron microscopy. Nature Methods, 2019, 16, 471-477.	19.0	367
7	SerialEM: A Program for Automated Tilt Series Acquisition on Tecnai Microscopes Using Prediction of Specimen Position. Microscopy and Microanalysis, 2003, 9, 1182-1183.	0.4	302
8	CTF determination and correction for low dose tomographic tilt series. Journal of Structural Biology, 2009, 168, 378-387.	2.8	195
9	Organization of Interphase Microtubules in Fission Yeast Analyzed by Electron Tomography. Developmental Cell, 2007, 12, 349-361.	7.0	158
10	Non‐uniform postnatal growth of the cat retina. Journal of Comparative Neurology, 1984, 228, 598-608.	1.6	140
11	Exploring the retinal connectome. Molecular Vision, 2011, 17, 355-79.	1.1	135
12	A Computational Framework for Ultrastructural Mapping of Neural Circuitry. PLoS Biology, 2009, 7, e1000074.	5.6	122
13	Nonlagged relay cells and interneurons in the cat lateral geniculate nucleus: Receptive-field properties and retinal inputs. Visual Neuroscience, 1992, 8, 407-441.	1.0	89
14	MRC2014: Extensions to the MRC format header for electron cryo-microscopy and tomography. Journal of Structural Biology, 2015, 192, 146-150.	2.8	59
15	Advanced Data Acquisition From Electron Microscopes With SerialEM. Microscopy and Microanalysis, 2018, 24, 864-865.	0.4	50
16	Lagged Y cells in the cat lateral geniculate nucleus. Visual Neuroscience, 1991, 7, 191-200.	1.0	40
17	Cryo-electron tomography of microtubule–kinesin motor complexes. Journal of Structural Biology, 2010, 170, 257-265.	2.8	38
18	Organization of the cat's optic tract as assessed by single-axon recordings. Journal of Comparative Neurology, 1984, 227, 14-22.	1.6	26

#	Article	IF	Citations
19	Practical Experience with Hole-Free Phase Plates for Cryo Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 1316-1328.	0.4	11
20	Large-Scale Electron Tomography of Cells Using SerialEM and IMOD. Biological and Medical Physics Series, 2018, , 95-116.	0.4	9
21	Resources for the Study of Cellular Structure by High Voltage Electron Tomography, Serial Thin Sectioning, Specific Labeling, and Image Analysis. Microscopy and Microanalysis, 1997, 3, 273-274.	0.4	0