Vladan Lucic

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.

33 papers	2,395 citations	20 h-index	39 g-index
39 ext. papers	2,798 ext. citations	9.4 avg, IF	4.92 L-index

#	Paper	IF	Citations
33	Structural studies by electron tomography: from cells to molecules. *Annual Review of Biochemistry*, **2005**, 74, 833-65	29.1	551
32	Snapshots of nuclear pore complexes in action captured by cryo-electron tomography. *Nature*, **2007**, 449, 611-5	50.4	302
31	Cryo-electron tomography: the challenge of doing structural biology in situ. *Journal of Cell Biology*, **2013**, 202, 407-19	7.3	266
30	Quantitative analysis of the native presynaptic cytomatrix by cryoelectron tomography. *Journal of Cell Biology*, **2010**, 188, 145-56	7.3	173
29	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. *Biophysical Journal*, **2016**, 110, 860-9	2.9	122
28	Electron cryotomography of vitrified cells with a Volta phase plate. *Journal of Structural Biology*, **2015**, 190, 143-54	3.4	108
27	Multiscale imaging of neurons grown in culture: from light microscopy to cryo-electron tomography. *Journal of Structural Biology*, **2007**, 160, 146-56	3.4	95
26	Cryo-electron tomography reveals a critical role of RIM1 in synaptic vesicle tethering. *Journal of Cell Biology*, **2013**, 201, 725-40	7.3	89
25	Cryo-electron tomography of cells: connecting structure and function. *Histochemistry and Cell Biology*, **2008**, 130, 185-96	2.4	89
24	Robust membrane detection based on tensor voting for electron tomography. *Journal of Structural Biology*, **2014**, 186, 49-61	3.4	84
23	Morphological characterization of molecular complexes present in the synaptic cleft. *Structure*, **2005**, 13, 423-34	5.2	83
22	Synucleins Have Multiple Effects on Presynaptic Architecture. *Cell Reports*, **2017**, 18, 161-173	10.6	78
21	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. *Neuron*, **2015**, 88, 1165-1172	13.9	76
20	Cryo-electron tomography: methodology, developments and biological applications. *Journal of Microscopy*, **2011**, 242, 221-7	1.9	47
19	Structural modeling of protein interactions by analogy: application to PSD-95. *PLoS Computational Biology*, **2006**, 2, e153	5	36
18	Detailed state model of CaMKII activation and autophosphorylation. *European Biophysics Journal*, **2008**, 38, 83-98	1.9	35
17	Insights into the molecular organization of the neuron by cryo-electron tomography. *Microscopy (Oxford, England)*, **2011**, 60 Suppl 1, S137-48	1.3	30

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16	Coordinate transformation based cryo-correlative methods for electron tomography and focused ion beam milling. *Ultramicroscopy*, **2014**, 143, 15-23	3.1	26
15	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. *Nature Methods*, **2020**, 17, 209-216	21.6	25
14	Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. *PLoS ONE*, **2018**, 13, e0197886	3.7	21
13	Hierarchical detection and analysis of macromolecular complexes in cryo-electron tomograms using Pyto software. *Journal of Structural Biology*, **2016**, 196, 503-514	3.4	14
12	Removing Contamination-Induced Reconstruction Artifacts from Cryo-electron Tomograms. *Biophysical Journal*, **2016**, 110, 850-9	2.9	12
11	Multimodal Synchrotron Radiation Microscopy of Intact Astrocytes from the hSOD1 G93A Rat Model of Amyotrophic Lateral Sclerosis. *Analytical Chemistry*, **2019**, 91, 1460-1471	7.8	12
10	Molecular architecture of the presynaptic terminal. *Current Opinion in Structural Biology*, **2019**, 54, 129-138	4.1	9
9	Trans-synaptic assemblies link synaptic vesicles and neuroreceptors. *Science Advances*, **2021**, 7,	14.3	4
8	Neuroscience. Monte Carlo places strong odds on ectopic release. *Science*, **2005**, 309, 387-8	33.3	3
7	Exploring the Inner Space of Cells by Cryoelectron-Tomography. *Microscopy and Microanalysis*, **2004**, 10, 152-153	0.5	1
6	Statistical spatial analysis for cryo-electron tomography.. *Computer Methods and Programs in Biomedicine*, **2022**, 218, 106693	6.9	1
5	Neuroscience: towards unified vesicle endocytosis. *Nature*, **2014**, 515, 207-8	50.4	
4	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. *Microscopy and Microanalysis*, **2014**, 20, 208-209	0.5	
3	The Cell at Molecular Resolution: Principles and Applications of Cryo-Electron Tomography **2012**, 141-183		
2	Qualitative analysis of electronic linear programming neural networks. *International Journal of Electronics*, **1993**, 75, 441-450	1.2	
1	Neurons as a model system for cryo-electron tomography.. *Journal of Structural Biology: X*, **2022**, 6, 100067	2.9	