

Vladan Lucic

List of Publications by Year in Descending Order

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Version: 2024-04-09

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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	Neurons as a model system for cryo-electron tomography.. <i>Journal of Structural Biology: X</i> , 2022 , 6, 100063	6.7	1
32	Statistical spatial analysis for cryo-electron tomography.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 218, 106693	6.9	1
31	Trans-synaptic assemblies link synaptic vesicles and neuroreceptors. <i>Science Advances</i> , 2021 , 7,	14.3	4
30	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. <i>Nature Methods</i> , 2020 , 17, 209-216	21.6	25
29	Molecular architecture of the presynaptic terminal. <i>Current Opinion in Structural Biology</i> , 2019 , 54, 129-188	9	
28	Multimodal Synchrotron Radiation Microscopy of Intact Astrocytes from the hSOD1 G93A Rat Model of Amyotrophic Lateral Sclerosis. <i>Analytical Chemistry</i> , 2019 , 91, 1460-1471	7.8	12
27	Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. <i>PLoS ONE</i> , 2018 , 13, e0197886	3.7	21
26	Synucleins Have Multiple Effects on Presynaptic Architecture. <i>Cell Reports</i> , 2017 , 18, 161-173	10.6	78
25	Hierarchical detection and analysis of macromolecular complexes in cryo-electron tomograms using Pyto software. <i>Journal of Structural Biology</i> , 2016 , 196, 503-514	3.4	14
24	Removing Contamination-Induced Reconstruction Artifacts from Cryo-electron Tomograms. <i>Biophysical Journal</i> , 2016 , 110, 850-9	2.9	12
23	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. <i>Biophysical Journal</i> , 2016 , 110, 860-9	2.9	122
22	Electron cryotomography of vitrified cells with a Volta phase plate. <i>Journal of Structural Biology</i> , 2015 , 190, 143-54	3.4	108
21	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. <i>Neuron</i> , 2015 , 88, 1165-1172	13.9	76
20	Neuroscience: towards unified vesicle endocytosis. <i>Nature</i> , 2014 , 515, 207-8	50.4	
19	Robust membrane detection based on tensor voting for electron tomography. <i>Journal of Structural Biology</i> , 2014 , 186, 49-61	3.4	84
18	Coordinate transformation based cryo-correlative methods for electron tomography and focused ion beam milling. <i>Ultramicroscopy</i> , 2014 , 143, 15-23	3.1	26
17	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. <i>Microscopy and Microanalysis</i> , 2014 , 20, 208-209	0.5	

16	Cryo-electron tomography reveals a critical role of RIM1 in synaptic vesicle tethering. <i>Journal of Cell Biology</i> , 2013 , 201, 725-40	7.3	89
15	Cryo-electron tomography: the challenge of doing structural biology in situ. <i>Journal of Cell Biology</i> , 2013 , 202, 407-19	7.3	266
14	The Cell at Molecular Resolution: Principles and Applications of Cryo-Electron Tomography 2012 , 141-183		
13	Cryo-electron tomography: methodology, developments and biological applications. <i>Journal of Microscopy</i> , 2011 , 242, 221-7	1.9	47
12	Insights into the molecular organization of the neuron by cryo-electron tomography. <i>Microscopy (Oxford, England)</i> , 2011 , 60 Suppl 1, S137-48	1.3	30
11	Quantitative analysis of the native presynaptic cytomatrix by cryoelectron tomography. <i>Journal of Cell Biology</i> , 2010 , 188, 145-56	7.3	173
10	Detailed state model of CaMKII activation and autophosphorylation. <i>European Biophysics Journal</i> , 2008 , 38, 83-98	1.9	35
9	Cryo-electron tomography of cells: connecting structure and function. <i>Histochemistry and Cell Biology</i> , 2008 , 130, 185-96	2.4	89
8	Snapshots of nuclear pore complexes in action captured by cryo-electron tomography. <i>Nature</i> , 2007 , 449, 611-5	50.4	302
7	Multiscale imaging of neurons grown in culture: from light microscopy to cryo-electron tomography. <i>Journal of Structural Biology</i> , 2007 , 160, 146-56	3.4	95
6	Structural modeling of protein interactions by analogy: application to PSD-95. <i>PLoS Computational Biology</i> , 2006 , 2, e153	5	36
5	Structural studies by electron tomography: from cells to molecules. <i>Annual Review of Biochemistry</i> , 2005 , 74, 833-65	29.1	551
4	Morphological characterization of molecular complexes present in the synaptic cleft. <i>Structure</i> , 2005 , 13, 423-34	5.2	83
3	Neuroscience. Monte Carlo places strong odds on ectopic release. <i>Science</i> , 2005 , 309, 387-8	33.3	3
2	Exploring the Inner Space of Cells by Cryoelectron-Tomography. <i>Microscopy and Microanalysis</i> , 2004 , 10, 152-153	0.5	1
1	Qualitative analysis of electronic linear programming neural networks. <i>International Journal of Electronics</i> , 1993 , 75, 441-450	1.2	