

Vladan Lucic

List of Publications by Year in descending order

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33
papers

3,038
citations

361413

20
h-index

454955

30
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39
all docs

39
docs citations

39
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	STRUCTURAL STUDIES BY ELECTRON TOMOGRAPHY: From Cells to Molecules. Annual Review of Biochemistry, 2005, 74, 833-865.	11.1	614
2	Cryo-electron tomography: The challenge of doing structural biology in situ. Journal of Cell Biology, 2013, 202, 407-419.	5.2	337
3	Snapshots of nuclear pore complexes in action captured by cryo-electron tomography. Nature, 2007, 449, 611-615.	27.8	330
4	Quantitative analysis of the native presynaptic cytomatrix by cryoelectron tomography. Journal of Cell Biology, 2010, 188, 145-156.	5.2	209
5	Site-Specific Cryo-focused Ion Beam Sample Preparation Guided by 3D Correlative Microscopy. Biophysical Journal, 2016, 110, 860-869.	0.5	172
6	Robust membrane detection based on tensor voting for electron tomography. Journal of Structural Biology, 2014, 186, 49-61.	2.8	169
7	Electron cryotomography of vitrified cells with a Volta phase plate. Journal of Structural Biology, 2015, 190, 143-154.	2.8	140
8	Synucleins Have Multiple Effects on Presynaptic Architecture. Cell Reports, 2017, 18, 161-173.	6.4	120
9	Cryo-electron tomography reveals a critical role of RIM1 \pm in synaptic vesicle tethering. Journal of Cell Biology, 2013, 201, 725-740.	5.2	110
10	Multiscale imaging of neurons grown in culture: From light microscopy to cryo-electron tomography. Journal of Structural Biology, 2007, 160, 146-156.	2.8	106
11	Cryo-electron tomography of cells: connecting structure and function. Histochemistry and Cell Biology, 2008, 130, 185-196.	1.7	103
12	Topographic Mapping of the Synaptic Cleft into Adhesive Nanodomains. Neuron, 2015, 88, 1165-1172.	8.1	102
13	Morphological Characterization of Molecular Complexes Present in the Synaptic Cleft. Structure, 2005, 13, 423-434.	3.3	98
14	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. Nature Methods, 2020, 17, 209-216.	19.0	60
15	Cryo-electron tomography: methodology, developments and biological applications. Journal of Microscopy, 2011, 242, 221-227.	1.8	51
16	Structural Modeling of Protein Interactions by Analogy: Application to PSD-95. PLoS Computational Biology, 2006, 2, e153.	3.2	39
17	Detailed state model of CaMKII activation and autophosphorylation. European Biophysics Journal, 2008, 38, 83-98.	2.2	39
18	Insights into the molecular organization of the neuron by cryo-electron tomography. Microscopy (Oxford, England), 2011, 60, S137-S148.	1.5	35

#	ARTICLE	IF	CITATIONS
19	Pleomorphic linkers as ubiquitous structural organizers of vesicles in axons. PLoS ONE, 2018, 13, e0197886.	2.5	34
20	Coordinate transformation based cryo-correlative methods for electron tomography and focused ion beam milling. Ultramicroscopy, 2014, 143, 15-23.	1.9	33
21	Hierarchical detection and analysis of macromolecular complexes in cryo-electron tomograms using Pyto software. Journal of Structural Biology, 2016, 196, 503-514.	2.8	26
22	Trans-synaptic assemblies link synaptic vesicles and neuroreceptors. Science Advances, 2021, 7, .	10.3	23
23	Removing Contamination-Induced Reconstruction Artifacts from Cryo-electron Tomograms. Biophysical Journal, 2016, 110, 850-859.	0.5	21
24	Molecular architecture of the presynaptic terminal. Current Opinion in Structural Biology, 2019, 54, 129-138.	5.7	20
25	Multimodal Synchrotron Radiation Microscopy of Intact Astrocytes from the hSOD1 G93A Rat Model of Amyotrophic Lateral Sclerosis. Analytical Chemistry, 2019, 91, 1460-1471.	6.5	18
26	Statistical spatial analysis for cryo-electron tomography. Computer Methods and Programs in Biomedicine, 2022, 218, 106693.	4.7	8
27	NEUROSCIENCE: Monte Carlo Places Strong Odds on Ectopic Release. Science, 2005, 309, 387-388.	12.6	3
28	Neurons as a model system for cryo-electron tomography. Journal of Structural Biology: X, 2022, 6, 100067.	1.3	2
29	Exploring the Inner Space of Cells by Cryoelectron-Tomography. Microscopy and Microanalysis, 2004, 10, 152-153.	0.4	1
30	Qualitative analysis of electronic linear programming neural networks. International Journal of Electronics, 1993, 75, 441-450.	1.4	0
31	The Cell at Molecular Resolution. , 2012, , 141-183.		0
32	Towards unified vesicle endocytosis. Nature, 2014, 515, 207-208.	27.8	0
33	Phase-Contrast Cryo-Electron Tomography of Primary Cultured Neuronal Cells. Microscopy and Microanalysis, 2014, 20, 208-209.	0.4	0