

Jose Luis Vilas

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,076
citations

840776

11
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Scipion: A software framework toward integration, reproducibility and validation in 3D electron microscopy. <i>Journal of Structural Biology</i> , 2016, 195, 93-99.	2.8	474
2	MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. <i>Structure</i> , 2018, 26, 337-344.e4.	3.3	179
3	Automatic local resolution-based sharpening of cryo-EM maps. <i>Bioinformatics</i> , 2020, 36, 765-772.	4.1	110
4	A review of resolution measures and related aspects in 3D Electron Microscopy. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 124, 1-30.	2.9	30
5	Using Scipion for stream image processing at Cryo-EM facilities. <i>Journal of Structural Biology</i> , 2018, 204, 457-463.	2.8	30
6	A new algorithm for high-resolution reconstruction of single particles by electron microscopy. <i>Journal of Structural Biology</i> , 2018, 204, 329-337.	2.8	28
7	Measuring local-directional resolution and local anisotropy in cryo-EM maps. <i>Nature Communications</i> , 2020, 11, 55.	12.8	28
8	Optimal achromatic wave retarders using two birefringent wave plates. <i>Applied Optics</i> , 2013, 52, 1892.	1.8	23
9	Local resolution estimates of cryoEM reconstructions. <i>Current Opinion in Structural Biology</i> , 2020, 64, 74-78.	5.7	21
10	ScipionTomo: Towards cryo-electron tomography software integration, reproducibility, and validation. <i>Journal of Structural Biology</i> , 2022, 214, 107872.	2.8	19
11	Algorithmic robustness to preferred orientations in single particle analysis by CryoEM. <i>Journal of Structural Biology</i> , 2021, 213, 107695.	2.8	18
12	Design of superachromatic quarter-wave retarders in a broad spectral range. <i>Applied Optics</i> , 2015, 54, 9758.	2.1	17
13	Advances in image processing for single-particle analysis by electron cryomicroscopy and challenges ahead. <i>Current Opinion in Structural Biology</i> , 2018, 52, 127-145.	5.7	15
14	Emerging Themes in CryoEM Single Particle Analysis Image Processing. <i>Chemical Reviews</i> , 2022, 122, 13915-13951.	47.7	12
15	Re-examining the spectra of macromolecules. Current practice of spectral quasi B-factor flattening. <i>Journal of Structural Biology</i> , 2020, 209, 107447.	2.8	11
16	Measurement of local resolution in electron tomography. <i>Journal of Structural Biology: X</i> , 2020, 4, 100016.	1.3	10
17	Local analysis of strains and rotations for macromolecular electron microscopy maps. <i>Journal of Structural Biology</i> , 2016, 195, 123-128.	2.8	9
18	Temperature dependence of birefringence in ethanol-filled suspended core fiber. <i>Applied Optics</i> , 2016, 55, 6222.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Blind estimation of DED camera gain in Electron Microscopy. Journal of Structural Biology, 2018, 203, 90-93.	2.8	7
20	Validation of electron microscopy initial models via small angle X-ray scattering curves. Bioinformatics, 2019, 35, 2427-2433.	4.1	7
21	A simple analytical method to obtain achromatic waveplate retarders. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock 5	2.2	5
22	Fast and automatic identification of particle tilt pairs based on Delaunay triangulation. Journal of Structural Biology, 2016, 196, 525-533.	2.8	4
23	Optimal achromatic wave retarders using two birefringent wave plates: reply. Applied Optics, 2013, 52, 7081.	1.8	3
24	Circularly polarized light with high degree of circularity and low azimuthal error sensitivity. Applied Optics, 2014, 53, 3393.	1.8	1