

Alex J Noble

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,379
citations

361413

20
h-index

580821

25
g-index

39
all docs

39
docs citations

39
times ranked

2978
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. <i>Nature Methods</i> , 2019, 16, 1153-1160.	19.0	693
2	Topaz-Denoise: general deep denoising models for cryoEM and cryoET. <i>Nature Communications</i> , 2020, 11, 5208.	12.8	313
3	Routine single particle CryoEM sample and grid characterization by tomography. <i>ELife</i> , 2018, 7, .	6.0	216
4	Reducing effects of particle adsorption to the air-water interface in cryo-EM. <i>Nature Methods</i> , 2018, 15, 793-795.	19.0	167
5	Routine determination of ice thickness for cryo-EM grids. <i>Journal of Structural Biology</i> , 2018, 204, 38-44.	2.8	114
6	Visualization of clustered protocadherin neuronal self-recognition complexes. <i>Nature</i> , 2019, 569, 280-283.	27.8	86
7	ResLog plots as an empirical metric of the quality of cryo-EM reconstructions. <i>Journal of Structural Biology</i> , 2014, 185, 418-426.	2.8	72
8	Automated batch fiducial-less tilt-series alignment in Appion using Protomo. <i>Journal of Structural Biology</i> , 2015, 192, 270-278.	2.8	64
9	Eliminating effects of particle adsorption to the air/water interface in single-particle cryo-electron microscopy: Bacterial RNA polymerase and CHAPSO. <i>Journal of Structural Biology: X</i> , 2019, 1, 100005.	1.3	60
10	Structure of the gene therapy vector, adeno-associated virus with its cell receptor, AAVR. <i>ELife</i> , 2019, 8, .	6.0	60
11	A pseudoatomic model of the COPII cage obtained from cryo-electron microscopy and mass spectrometry. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 167-173.	8.2	57
12	Characterization of the SARS-CoV-2 S Protein: Biophysical, Biochemical, Structural, and Antigenic Analysis. <i>ACS Omega</i> , 2021, 6, 85-102.	3.5	54
13	Big data in cryoEM: automated collection, processing and accessibility of EM data. <i>Current Opinion in Microbiology</i> , 2018, 43, 1-8.	5.1	45
14	Better, Faster, Cheaper: Recent Advances in Cryo-Electron Microscopy. <i>Annual Review of Biochemistry</i> , 2022, 91, 1-32.	11.1	45
15	Waffle Method: A general and flexible approach for improving throughput in FIB-milling. <i>Nature Communications</i> , 2022, 13, 1857.	12.8	43
16	Insights into the Mechanisms of Membrane Curvature and Vesicle Scission by the Small GTPase Sar1 in the Early Secretory Pathway. <i>Journal of Molecular Biology</i> , 2014, 426, 3811-3826.	4.2	40
17	Family-wide Structural and Biophysical Analysis of Binding Interactions among Non-clustered Î-Protocadherins. <i>Cell Reports</i> , 2020, 30, 2655-2671.e7.	6.4	35
18	Architecture of the human erythrocyte ankyrin-1 complex. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 706-718.	8.2	33

#	ARTICLE	IF	CITATIONS
19	The influence of frame alignment with dose compensation on the quality of single particle reconstructions. <i>Journal of Structural Biology</i> , 2015, 192, 196-203.	2.8	30
20	The 2.8Å... Electron Microscopy Structure of Adeno-Associated Virus-DJ Bound by a Heparinoid Pentasaccharide. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 5, 1-12.	4.1	30
21	Label-free visual proteomics: Coupling MS- and EM-based approaches in structural biology. <i>Molecular Cell</i> , 2022, 82, 285-303.	9.7	21
22	Mechanisms of opening and closing of the bacterial replicative helicase. <i>ELife</i> , 2018, 7, .	6.0	16
23	TOPAZ: A Positive-Unlabeled Convolutional Neural Network CryoEM Particle Picker that can Pick Any Size and Shape Particle. <i>Microscopy and Microanalysis</i> , 2019, 25, 986-987.	0.4	14
24	Structural basis for the mechanisms of human presequence protease conformational switch and substrate recognition. <i>Nature Communications</i> , 2022, 13, 1833.	12.8	4
25	COPI gets a fancy new coat. <i>Science</i> , 2015, 349, 142-143.	12.6	1
26	ResLog Plots: A New Metric for the Quality of Cryo-EM Reconstructions. <i>Microscopy and Microanalysis</i> , 2014, 20, 1254-1255.	0.4	0