

Stefan Pfeffer

List of Publications by Year in descending order

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44
papers

3,395
citations

201385

27
h-index

253896

43
g-index

53
all docs

53
docs citations

53
times ranked

3674
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the molecular sociology at the HeLa cell nuclear periphery. <i>Science</i> , 2016, 351, 969-972.	6.0	493
2	mTORC1 Controls Phase Separation and the Biophysical Properties of the Cytoplasm by Tuning Crowding. <i>Cell</i> , 2018, 174, 338-349.e20.	13.5	330
3	PyTom: A python-based toolbox for localization of macromolecules in cryo-electron tomograms and subtomogram analysis. <i>Journal of Structural Biology</i> , 2012, 178, 177-188.	1.3	202
4	Structural basis for coupling protein transport and N-glycosylation at the mammalian endoplasmic reticulum. <i>Science</i> , 2018, 360, 215-219.	6.0	177
5	Structure of the native Sec61 protein-conducting channel. <i>Nature Communications</i> , 2015, 6, 8403.	5.8	169
6	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native <i>Caenorhabditis elegans</i> tissue. <i>Nature Methods</i> , 2019, 16, 757-762.	9.0	165
7	Dissecting the molecular organization of the translocon-associated protein complex. <i>Nature Communications</i> , 2017, 8, 14516.	5.8	131
8	Structure of the mammalian oligosaccharyl-transferase complex in the native ER protein translocon. <i>Nature Communications</i> , 2014, 5, 3072.	5.8	127
9	An Update on Sec61 Channel Functions, Mechanisms, and Related Diseases. <i>Frontiers in Physiology</i> , 2017, 8, 887.	1.3	117
10	Organization of the mitochondrial translation machinery studied in situ by cryoelectron tomography. <i>Nature Communications</i> , 2015, 6, 6019.	5.8	115
11	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. <i>Nature Plants</i> , 2019, 5, 436-446.	4.7	114
12	Insights into the assembly and activation of the microtubule nucleator $\hat{1}^3$ -TuRC. <i>Nature</i> , 2020, 578, 467-471.	13.7	106
13	Deep learning improves macromolecule identification in 3D cellular cryo-electron tomograms. <i>Nature Methods</i> , 2021, 18, 1386-1394.	9.0	84
14	Structure and 3D Arrangement of Endoplasmic Reticulum Membrane-Associated Ribosomes. <i>Structure</i> , 2012, 20, 1508-1518.	1.6	79
15	Structure of the Human Mitochondrial Ribosome Studied In Situ by Cryoelectron Tomography. <i>Structure</i> , 2017, 25, 1574-1581.e2.	1.6	73
16	Protein Transport into the Human Endoplasmic Reticulum. <i>Journal of Molecular Biology</i> , 2015, 427, 1159-1175.	2.0	71
17	Subtomogram analysis using the Volta phase plate. <i>Journal of Structural Biology</i> , 2017, 197, 94-101.	1.3	71
18	Fast and accurate reference-free alignment of subtomograms. <i>Journal of Structural Biology</i> , 2013, 182, 235-245.	1.3	70

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19	Proteomics reveals signal peptide features determining the client specificity in human TRAP-dependent ER protein import. <i>Nature Communications</i> , 2018, 9, 3765.	5.8	68
20	Plasma cell deficiency in human subjects with heterozygous mutations in Sec61 translocon alpha 1 subunit (SEC61A1). <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1427-1438.	1.5	63
21	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. <i>Nature Methods</i> , 2020, 17, 209-216.	9.0	60
22	Ribosome-associated quality-control mechanisms from bacteria to humans. <i>Molecular Cell</i> , 2022, 82, 1451-1466.	4.5	58
23	Unravelling molecular complexity in structural cell biology. <i>Current Opinion in Structural Biology</i> , 2018, 52, 111-118.	2.6	54
24	Microtubule nucleation: The waltz between β -tubulin ring complex and associated proteins. <i>Current Opinion in Cell Biology</i> , 2021, 68, 124-131.	2.6	45
25	Autofocused 3D Classification of Cryoelectron Subtomograms. <i>Structure</i> , 2014, 22, 1528-1537.	1.6	43
26	Organization of the native ribosome-translocon complex at the mammalian endoplasmic reticulum membrane. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2122-2129.	1.1	40
27	MetAP-like Ebp1 occupies the human ribosomal tunnel exit and recruits flexible rRNA expansion segments. <i>Nature Communications</i> , 2020, 11, 776.	5.8	36
28	Mimicry of Canonical Translation Elongation Underlies Alanine Tail Synthesis in RQC. <i>Molecular Cell</i> , 2021, 81, 104-114.e6.	4.5	30
29	Bacterial ribosome collision sensing by a MutS DNA repair ATPase paralogue. <i>Nature</i> , 2022, 603, 509-514.	13.7	27
30	How to build a ribosome from RNA fragments in <i>Chlamydomonas</i> mitochondria. <i>Nature Communications</i> , 2021, 12, 7176.	5.8	27
31	Structural impact of K63 ubiquitin on yeast translocating ribosomes under oxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22157-22166.	3.3	21
32	The structure of the β -TuRC: a 25-years-old molecular puzzle. <i>Current Opinion in Structural Biology</i> , 2021, 66, 15-21.	2.6	20
33	Modular assembly of the principal microtubule nucleator β -TuRC. <i>Nature Communications</i> , 2022, 13, 473.	5.8	18
34	Functions and Mechanisms of the Human Ribosome-Translocon Complex. <i>Sub-Cellular Biochemistry</i> , 2019, 93, 83-141.	1.0	15
35	TRAM1 protein may support ER protein import by modulating the phospholipid bilayer near the lateral gate of the Sec61-channel. <i>Channels</i> , 2020, 14, 28-44.	1.5	13
36	Detection and identification of macromolecular complexes in cryo-electron tomograms using support vector machines. , 2012, , .		11

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37	Reconstitution of the recombinant human $\hat{\beta}$ -tubulin ring complex. <i>Open Biology</i> , 2021, 11, 200325.	1.5	11
38	The gamma- $\hat{\epsilon}$ -tubulin ring complex: Deciphering the molecular organization and assembly mechanism of a major vertebrate microtubule nucleator. <i>BioEssays</i> , 2021, 43, e2100114.	1.2	8
39	The cryo-EM structure of a $\hat{\beta}$ -TuSC elucidates architecture and regulation of minimal microtubule nucleation systems. <i>Nature Communications</i> , 2020, 11, 5705.	5.8	7
40	Sec61: A static framework for membrane-protein insertion. <i>Channels</i> , 2016, 10, 167-169.	1.5	5
41	Cryo-FIB Lamella Milling: A Comprehensive Technique to Prepare Samples of Both Plunge- and High-pressure Frozen-hydrated Specimens for in situ Studies.. <i>Microscopy and Microanalysis</i> , 2018, 24, 820-821.	0.2	5
42	Structural Biology in Situ Using Cryo-Electron Subtomogram Analysis. <i>Biological and Medical Physics Series</i> , 2018, , 237-259.	0.3	3
43	Automated detection of polysomes in cryoelectron tomography. , 2014, , .		1
44	Towards High Resolution in Cryo-Electron Tomography Subtomogram Analysis. <i>Microscopy and Microanalysis</i> , 2017, 23, 812-813.	0.2	1