Stefan Pfeffer

List of Publications by Year in Descending Order

46 papers	2,062 citations	23 h-index	45 g-index
53 ext. papers	2,848 ext. citations	14 avg, IF	5.08 L-index

#	Paper	IF	Citations
46	Modular assembly of the principal microtubule nucleator γTuRC.. *Nature Communications*, **2022**, 13, 473	17.4	4
45	Bacterial ribosome collision sensing by a MutS DNA repair ATPase paralogue.. *Nature*, **2022**,	50.4	2
44	Ribosome-associated quality-control mechanisms from bacteria to humans.. *Molecular Cell*, **2022**, 82, 1451-1466	17.6	1
43	Deep learning improves macromolecule identification in 3D cellular cryo-electron tomograms. *Nature Methods*, **2021**, 18, 1386-1394	21.6	9
42	The gamma-tubulin ring complex: Deciphering the molecular organization and assembly mechanism of a major vertebrate microtubule nucleator. *BioEssays*, **2021**, 43, e2100114	4.1	1
41	The structure of the γTuRC: a 25-years-old molecular puzzle. *Current Opinion in Structural Biology*, **2021**, 66, 15-21	8.1	6
40	Mimicry of Canonical Translation Elongation Underlies Alanine Tail Synthesis in RQC. *Molecular Cell*, **2021**, 81, 104-114.e6	17.6	14
39	Microtubule nucleation: The waltz between γ-tubulin ring complex and associated proteins. *Current Opinion in Cell Biology*, **2021**, 68, 124-131	9	17
38	Reconstitution of the recombinant human γ-tubulin ring complex. *Open Biology*, **2021**, 11, 200325	7	7
37	How to build a ribosome from RNA fragments in Chlamydomonas mitochondria. *Nature Communications*, **2021**, 12, 7176	17.4	5
36	Insights into the assembly and activation of the microtubule nucleator γTuRC. *Nature*, **2020**, 578, 467-471	50.4	54
35	MetAP-like Ebp1 occupies the human ribosomal tunnel exit and recruits flexible rRNA expansion segments. *Nature Communications*, **2020**, 11, 776	17.4	17
34	TRAM1 protein may support ER protein import by modulating the phospholipid bilayer near the lateral gate of the Sec61-channel. *Channels*, **2020**, 14, 28-44	3	6
33	Einblicke in die Entstehung von Mikrotubuli. *BioSpektrum*, **2020**, 26, 145-147	0.1	
32	Template-free detection and classification of membrane-bound complexes in cryo-electron tomograms. *Nature Methods*, **2020**, 17, 209-216	21.6	25
31	The cryo-EM structure of a γTuSC elucidates architecture and regulation of minimal microtubule nucleation systems. *Nature Communications*, **2020**, 11, 5705	17.4	4
30	Structural impact of K63 ubiquitin on yeast translocating ribosomes under oxidative stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22157-22166	11.5	7

29	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. *Nature Plants*, **2019**, 5, 436-446	11.5	66
28	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. *Nature Methods*, **2019**, 16, 757-762	21.6	90
27	Functions and Mechanisms of the Human Ribosome-Translocon Complex. *Sub-Cellular Biochemistry*, **2019**, 93, 83-141	5.5	9
26	Structural basis for coupling protein transport and N-glycosylation at the mammalian endoplasmic reticulum. *Science*, **2018**, 360, 215-219	33.3	114
25	mTORC1 Controls Phase Separation and the Biophysical Properties of the Cytoplasm by Tuning Crowding. *Cell*, **2018**, 174, 338-349.e20	56.2	169
24	Structural Biology in Situ Using Cryo-Electron Subtomogram Analysis **2018**, 237-259		3
23	Plasma cell deficiency in human subjects with heterozygous mutations in Sec61 translocon alpha 1 subunit (SEC61A1). *Journal of Allergy and Clinical Immunology*, **2018**, 141, 1427-1438	11.5	35
22	Cryo-FIB Lamella Milling: A Comprehensive Technique to Prepare Samples of Both Plunge- and High-pressure Frozen-hydrated Specimens for in situ Studies.. *Microscopy and Microanalysis*, **2018**, 24, 820-821	0.5	0
21	Unravelling molecular complexity in structural cell biology. *Current Opinion in Structural Biology*, **2018**, 52, 111-118	8.1	36
20	Proteomics reveals signal peptide features determining the client specificity in human TRAP-dependent ER protein import. *Nature Communications*, **2018**, 9, 3765	17.4	37
19	Subtomogram analysis using the Volta phase plate. *Journal of Structural Biology*, **2017**, 197, 94-101	3.4	53
18	Dissecting the molecular organization of the translocon-associated protein complex. *Nature Communications*, **2017**, 8, 14516	17.4	82
17	Towards High Resolution in Cryo-Electron Tomography Subtomogram Analysis. *Microscopy and Microanalysis*, **2017**, 23, 812-813	0.5	1
16	Structure of the Human Mitochondrial Ribosome Studied In Situ by Cryoelectron Tomography. *Structure*, **2017**, 25, 1574-1581.e2	5.2	51
15	An Update on Sec61 Channel Functions, Mechanisms, and Related Diseases. *Frontiers in Physiology*, **2017**, 8, 887	4.6	70
14	Visualizing the molecular sociology at the HeLa cell nuclear periphery. *Science*, **2016**, 351, 969-72	33.3	344
13	Sec61: A static framework for membrane-protein insertion. *Channels*, **2016**, 10, 167-9	3	2
12	Organization of the native ribosome-translocon complex at the mammalian endoplasmic reticulum membrane. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 2122-9	4	33

11	Structure of the native Sec61 protein-conducting channel. *Nature Communications*, **2015**, 6, 8403	17.4	125
10	Protein transport into the human endoplasmic reticulum. *Journal of Molecular Biology*, **2015**, 427, 1159-75	4.5	55
9	Proteintranslation und Prozessierung in physiologischer Umgebung abgebildet. *BioSpektrum*, **2015**, 21, 385-387	0.1	
8	Organization of the mitochondrial translation machinery studied in situ by cryoelectron tomography. *Nature Communications*, **2015**, 6, 6019	17.4	85
7	Structure of the mammalian oligosaccharyl-transferase complex in the native ER protein translocon. *Nature Communications*, **2014**, 5, 3072	17.4	104
6	Autofocused 3D classification of cryoelectron subtomograms. *Structure*, **2014**, 22, 1528-37	5.2	33
5	Automated detection of polysomes in cryoelectron tomography **2014**,		1
4	Fast and accurate reference-free alignment of subtomograms. *Journal of Structural Biology*, **2013**, 182, 235-45	3.4	56
3	PyTom: a python-based toolbox for localization of macromolecules in cryo-electron tomograms and subtomogram analysis. *Journal of Structural Biology*, **2012**, 178, 177-88	3.4	149
2	Structure and 3D arrangement of endoplasmic reticulum membrane-associated ribosomes. *Structure*, **2012**, 20, 1508-18	5.2	69
1	Detection and identification of macromolecular complexes in cryo-electron tomograms using support vector machines **2012**,		6