

# Carsten Sachse

## List of Publications by Citations

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59  
papers

8,026  
citations

35  
h-index

74  
g-index

74  
ext. papers

9,805  
ext. citations

12.4  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
59	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
58	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382	10.2	440
57	An atomic model of HIV-1 capsid-SP1 reveals structures regulating assembly and maturation. <i>Science</i> , <b>2016</b> , 353, 506-8	33.3	250
56	Abeta(1-40) fibril polymorphism implies diverse interaction patterns in amyloid fibrils. <i>Journal of Molecular Biology</i> , <b>2009</b> , 386, 869-77	6.5	244
55	Comparison of Alzheimer Abeta(1-40) and Abeta(1-42) amyloid fibrils reveals similar protofilament structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 19813-8	11.5	213
54	High-resolution electron microscopy of helical specimens: a fresh look at tobacco mosaic virus. <i>Journal of Molecular Biology</i> , <b>2007</b> , 371, 812-35	6.5	200
53	Directed selection of a conformational antibody domain that prevents mature amyloid fibril formation by stabilizing Abeta protofibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19232-7	11.5	190
52	Paired beta-sheet structure of an Abeta(1-40) amyloid fibril revealed by electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 7462-6	11.5	175
51	p62 filaments capture and present ubiquitinated cargos for autophagy. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	153
50	Concentration-dependent realignment of the antimicrobial peptide PGLa in lipid membranes observed by solid-state 19F-NMR. <i>Biophysical Journal</i> , <b>2005</b> , 88, 3392-7	2.9	138
49	The selective autophagy receptor p62 forms a flexible filamentous helical scaffold. <i>Cell Reports</i> , <b>2015</b> , 11, 748-58	10.6	136
48	Structure of a bacterial dynamin-like protein lipid tube provides a mechanism for assembly and membrane curving. <i>Cell</i> , <b>2009</b> , 139, 1342-52	56.2	136
47	Structure of the immature retroviral capsid at 8 Å resolution by cryo-electron microscopy. <i>Nature</i> , <b>2012</b> , 487, 385-9	50.4	134
46	Molecular structures of unbound and transcribing RNA polymerase III. <i>Nature</i> , <b>2015</b> , 528, 231-6	50.4	127
45	Model-based local density sharpening of cryo-EM maps. <i>ELife</i> , <b>2017</b> , 6,	8.9	113
44	Orientation of the antimicrobial peptide PGLa in lipid membranes determined from 19F-NMR dipolar couplings of 4-CF3-phenylglycine labels. <i>Journal of Magnetic Resonance</i> , <b>2004</b> , 168, 153-63	3	103
43	Structural virology. Near-atomic cryo-EM structure of the helical measles virus nucleocapsid. <i>Science</i> , <b>2015</b> , 348, 704-7	33.3	95

42	Three-dimensional structure of TspO by electron cryomicroscopy of helical crystals. <i>Structure</i> , <b>2010</b> , 18, 677-87	5.2	92
41	SPRING - an image processing package for single-particle based helical reconstruction from electron cryomicrographs. <i>Journal of Structural Biology</i> , <b>2014</b> , 185, 15-26	3.4	80
40	Cartwheel architecture of Trichonympha basal body. <i>Science</i> , <b>2012</b> , 337, 553	33.3	76
39	The Small Non-coding Vault RNA1-1 Acts as a Riboregulator of Autophagy. <i>Cell</i> , <b>2019</b> , 176, 1054-1067.e136.2	36.2	73
38	Seeing tobacco mosaic virus through direct electron detectors. <i>Journal of Structural Biology</i> , <b>2015</b> , 189, 87-97	3.4	67
37	Quaternary structure of a mature amyloid fibril from Alzheimer's Abeta(1-40) peptide. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 347-54	6.5	62
36	Nanoscale flexibility parameters of Alzheimer amyloid fibrils determined by electron cryo-microscopy. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1321-3	16.4	60
35	Molecular Structures of Transcribing RNA Polymerase I. <i>Molecular Cell</i> , <b>2016</b> , 64, 1135-1143	17.6	60
34	Structures of actin-like ParM filaments show architecture of plasmid-segregating spindles. <i>Nature</i> , <b>2015</b> , 523, 106-10	50.4	57
33	Architecture of the yeast Elongator complex. <i>EMBO Reports</i> , <b>2017</b> , 18, 264-279	6.5	53
32	An organized co-assembly of clathrin adaptors is essential for endocytosis. <i>Developmental Cell</i> , <b>2015</b> , 33, 150-62	10.2	51
31	The dynamic conformational landscape of gamma-secretase. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 589-98	5.3	51
30	Structural differences explain diverse functions of Plasmodium actins. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004096	9.6	50
29	Structural insights into transcription initiation by yeast RNA polymerase I. <i>EMBO Journal</i> , <b>2017</b> , 36, 2698-2709	23.9	45
28	Characterization of Atg38 and NRBF2, a fifth subunit of the autophagic Vps34/PIK3C3 complex. <i>Autophagy</i> , <b>2016</b> , 12, 2129-2144	10.2	42
27	A dose-rate effect in single-particle electron microscopy. <i>Journal of Structural Biology</i> , <b>2008</b> , 161, 92-100	3.4	40
26	RIP2 filament formation is required for NOD2 dependent NF- $\kappa$ B signalling. <i>Nature Communications</i> , <b>2018</b> , 9, 4043	17.4	36
25	Structural basis of p62/SQSTM1 helical filaments and their role in cellular cargo uptake. <i>Nature Communications</i> , <b>2020</b> , 11, 440	17.4	33

24	(19)F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 2260-8	3.8	30
23	Thresholding of cryo-EM density maps by false discovery rate control. <i>IUCrJ</i> , <b>2019</b> , 6, 18-33	4.7	24
22	Higher-order assemblies of oligomeric cargo receptor complexes form the membrane scaffold of the Cvt vesicle. <i>EMBO Reports</i> , <b>2016</b> , 17, 1044-60	6.5	20
21	GTP regulates the microtubule nucleation activity of $\beta$ tubulin. <i>Nature Cell Biology</i> , <b>2013</b> , 15, 1317-27	23.4	19
20	Single-particle based helical reconstruction how to make the most of real and Fourier space. <i>AIMS Biophysics</i> , <b>2015</b> , 2, 219-244	0.8	18
19	Cross-linker-mediated regulation of actin network organization controls tissue morphogenesis. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 2743-2761	7.3	16
18	Transcribing RNA polymerase III observed by electron cryomicroscopy. <i>FEBS Journal</i> , <b>2016</b> , 283, 2811-9	5.7	15
17	Cryo-EM Structure Determination Using Segmented Helical Image Reconstruction. <i>Methods in Enzymology</i> , <b>2016</b> , 579, 307-28	1.7	15
16	Structure and assembly of ESCRT-III helical Vps24 filaments. <i>Science Advances</i> , <b>2020</b> , 6, eaba4897	14.3	14
15	Phasing out the bad-how SQSTM1/p62 sequesters ubiquitinated proteins for degradation by autophagy. <i>Autophagy</i> , <b>2018</b> , 14, 1280-1282	10.2	13
14	Elucidation of the viral disassembly switch of tobacco mosaic virus. <i>EMBO Reports</i> , <b>2019</b> , 20, e48451	6.5	12
13	PspA adopts an ESCRT-III-like fold and remodels bacterial membranes. <i>Cell</i> , <b>2021</b> , 184, 3674-3688.e18	56.2	12
12	Characterization of the mycobacterial acyl-CoA carboxylase holo complexes reveals their functional expansion into amino acid catabolism. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004623	7.6	11
11	Automated tracing of helical assemblies from electron cryo-micrographs. <i>Journal of Structural Biology</i> , <b>2018</b> , 202, 1-12	3.4	10
10	Structure and function of p62/SQSTM1 in the emerging framework of phase separation. <i>FEBS Journal</i> , <b>2020</b> ,	5.7	9
9	A new method for cryo-sectioning cell monolayers using a correlative workflow. <i>Methods in Cell Biology</i> , <b>2017</b> , 140, 85-103	1.8	7
8	Kryoelektronenmikroskopische Bestimmung der nanoskaligen Flexibilität von Amyloidfibrillen. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1343-1345	3.6	6
7	Permutation testing of Fourier shell correlation for resolution estimation of cryo-EM maps. <i>Journal of Structural Biology</i> , <b>2020</b> , 212, 107579	3.4	6

6	Vault RNA emerges as a regulator of selective autophagy. <i>Autophagy</i> , <b>2019</b> , 15, 1463-1464	10.2	4
5	Recombinant Expression, Purification, and Assembly of p62 Filaments. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1880, 3-15	1.4	2
4	Confidence maps: statistical inference of cryo-EM maps. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2020</b> , 76, 332-339	5.5	1
3	PspA adopts an ESCRT-III-like fold and remodels bacterial membranes		1
2	Binding and/or hydrolysis of purine-based nucleotides is not required for IM30 ring formation. <i>FEBS Letters</i> , <b>2021</b> , 595, 1876-1885	3.8	0
1	Structural interpretation of cryo-EM image reconstructions. <i>Progress in Biophysics and Molecular Biology</i> , <b>2021</b> , 160, 26-36	4.7	0