

Carsten Sachse

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

11,070
citations

101384

36
h-index

118652

62
g-index

74
all docs

74
docs citations

74
times ranked

20768
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of p62/SQSTM1 in the emerging framework of phase separation. FEBS Journal, 2021, 288, 6927-6941.	2.2	29
2	Structural interpretation of cryo-EM image reconstructions. Progress in Biophysics and Molecular Biology, 2021, 160, 26-36.	1.4	11
3	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Wolfgang Baumeister, Colin Humphreys, John Spence and Knut Urban on the occasion of their 75th, 80th, 75th and 80th birthdays. Ultramicroscopy, 2021, 231, 113290.	0.8	0
4	Binding and/or hydrolysis of purine-based nucleotides is not required for IM30 ring formation. FEBS Letters, 2021, 595, 1876-1885.	1.3	2
5	PspA adopts an ESCRT-III-like fold and remodels bacterial membranes. Cell, 2021, 184, 3674-3688.e18.	13.5	51
6	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (edition	4.3	1,430
7	Permutation testing of Fourier shell correlation for resolution estimation of cryo-EM maps. Journal of Structural Biology, 2020, 212, 107579.	1.3	18
8	Structure and assembly of ESCRT-III helical Vps24 filaments. Science Advances, 2020, 6, eaba4897.	4.7	32
9	Structural basis of p62/SQSTM1 helical filaments and their role in cellular cargo uptake. Nature Communications, 2020, 11, 440.	5.8	71
10	Confidence maps: statistical inference of cryo-EM maps. Acta Crystallographica Section D: Structural Biology, 2020, 76, 332-339.	1.1	1
11	Cross-linker-mediated regulation of actin network organization controls tissue morphogenesis. Journal of Cell Biology, 2019, 218, 2743-2761.	2.3	32
12	Vault RNA emerges as a regulator of selective autophagy. Autophagy, 2019, 15, 1463-1464.	4.3	10
13	Introduction to a special issue on Frontiers of Aberration Corrected Electron Microscopy in honour of Christian Colliex, Archie Howie and Hannes Lichte on the occasion of their 75th, 85th and 75th birthdays. Ultramicroscopy, 2019, 203, 1.	0.8	1
14	The Small Non-coding Vault RNA1-1 Acts as a Riboregulator of Autophagy. Cell, 2019, 176, 1054-1067.e12.	13.5	125
15	Recombinant Expression, Purification, and Assembly of p62 Filaments. Methods in Molecular Biology, 2019, 1880, 3-15.	0.4	2
16	Thresholding of cryo-EM density maps by false discovery rate control. IUCr, 2019, 6, 18-33.	1.0	34
17	Elucidation of the viral disassembly switch of tobacco mosaic virus. EMBO Reports, 2019, 20, e48451.	2.0	26
18	The ESCRT-III protein VPS24 forms double stranded filaments composed of domain-swapped dimers. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e153-e153.	0.0	0

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19	p62 filaments capture and present ubiquitinated cargos for autophagy. <i>EMBO Journal</i> , 2018, 37, .	3.5	254
20	Automated tracing of helical assemblies from electron cryo-micrographs. <i>Journal of Structural Biology</i> , 2018, 202, 1-12.	1.3	19
21	RIP2 filament formation is required for NOD2 dependent NF- κ B signalling. <i>Nature Communications</i> , 2018, 9, 4043.	5.8	55
22	Phasing out the badâ€”How SQSTM1/p62 sequesters ubiquitinated proteins for degradation by autophagy. <i>Autophagy</i> , 2018, 14, 1280-1282.	4.3	20
23	Architecture of the yeast Elongator complex. <i>EMBO Reports</i> , 2017, 18, 264-279.	2.0	75
24	Structural insights into transcription initiation by yeast RNA polymerase I. <i>EMBO Journal</i> , 2017, 36, 2698-2709.	3.5	58
25	A new method for cryo-sectioning cell monolayers using a correlative workflow. <i>Methods in Cell Biology</i> , 2017, 140, 85-103.	0.5	7
26	Model-based local density sharpening of cryo-EM maps. <i>ELife</i> , 2017, 6, .	2.8	200
27	Better maps for better models. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1191-C1191.	0.0	0
28	Transcribing <scp>RNA</scp> polymerase <scp>III</scp> observed by electron cryomicroscopy. <i>FEBS Journal</i> , 2016, 283, 2811-2819.	2.2	18
29	Molecular Structures of Transcribing RNA Polymerase I. <i>Molecular Cell</i> , 2016, 64, 1135-1143.	4.5	85
30	Higherâ€”order assemblies of oligomeric cargo receptor complexes form the membrane scaffold of the Cvt vesicle. <i>EMBO Reports</i> , 2016, 17, 1044-1060.	2.0	26
31	Cryo-EM Structure Determination Using Segmented Helical Image Reconstruction. <i>Methods in Enzymology</i> , 2016, 579, 307-328.	0.4	18
32	Characterization of Atg38 and NRBF2, a fifth subunit of the autophagic Vps34/PIK3C3 complex. <i>Autophagy</i> , 2016, 12, 2129-2144.	4.3	52
33	An atomic model of HIV-1 capsid-SP1 reveals structures regulating assembly and maturation. <i>Science</i> , 2016, 353, 506-508.	6.0	375
34	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
35	The dynamic conformational landscape of $\hat{1}^3$ -secretase. <i>Journal of Cell Science</i> , 2015, 128, 589-98.	1.2	63
36	Characterization of the Mycobacterial Acyl-CoA Carboxylase Holo Complexes Reveals Their Functional Expansion into Amino Acid Catabolism. <i>PLoS Pathogens</i> , 2015, 11, e1004623.	2.1	19

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37	The Selective Autophagy Receptor p62 Forms a Flexible Filamentous Helical Scaffold. <i>Cell Reports</i> , 2015, 11, 748-758.	2.9	190
38	Structures of actin-like ParM filaments show architecture of plasmid-segregating spindles. <i>Nature</i> , 2015, 523, 106-110.	13.7	73
39	Near-atomic cryo-EM structure of the helical measles virus nucleocapsid. <i>Science</i> , 2015, 348, 704-707.	6.0	131
40	An Organized Co-assembly of Clathrin Adaptors Is Essential for Endocytosis. <i>Developmental Cell</i> , 2015, 33, 150-162.	3.1	75
41	Molecular structures of unbound and transcribing RNA polymerase III. <i>Nature</i> , 2015, 528, 231-236.	13.7	167
42	Seeing tobacco mosaic virus through direct electron detectors. <i>Journal of Structural Biology</i> , 2015, 189, 87-97.	1.3	82
43	The higher-order molecular organization of p62/SQSTM1. <i>Oncotarget</i> , 2015, 6, 16796-16797.	0.8	4
44	Single-particle based helical reconstruction—how to make the most of real and Fourier space. <i>AIMS Biophysics</i> , 2015, 2, 219-244.	0.3	24
45	Structural Differences Explain Diverse Functions of Plasmodium Actins. <i>PLoS Pathogens</i> , 2014, 10, e1004091.	2.1	66
46	19F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2260-2268.	1.4	33
47	SPRING — An image processing package for single-particle based helical reconstruction from electron cryomicrographs. <i>Journal of Structural Biology</i> , 2014, 185, 15-26.	1.3	106
48	GTP regulates the microtubule nucleation activity of $\hat{\gamma}$ -tubulin. <i>Nature Cell Biology</i> , 2013, 15, 1317-1327.	4.6	28
49	Cartwheel Architecture of <i>Trichonympha</i> Basal Body. <i>Science</i> , 2012, 337, 553-553.	6.0	84
50	Structure of the immature retroviral capsid at 8Å resolution by cryo-electron microscopy. <i>Nature</i> , 2012, 487, 385-389.	13.7	152
51	Three-Dimensional Structure of TspO by Electron Cryomicroscopy of Helical Crystals. <i>Structure</i> , 2010, 18, 677-687.	1.6	101
52	Nanoscale Flexibility Parameters of Alzheimer Amyloid Fibrils Determined by Electron Cryo-Microscopy. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1321-1323.	7.2	65
53	Structure of a Bacterial Dynamin-like Protein Lipid Tube Provides a Mechanism For Assembly and Membrane Curving. <i>Cell</i> , 2009, 139, 1342-1352.	13.5	163
54	A β (1-40) Fibril Polymorphism Implies Diverse Interaction Patterns in Amyloid Fibrils. <i>Journal of Molecular Biology</i> , 2009, 386, 869-877.	2.0	280

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55	Comparison of Alzheimer A β (1-40) and A β (1-42) amyloid fibrils reveals similar protofilament structures. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19813-19818.	3.3	251
56	A dose-rate effect in single-particle electron microscopy. Journal of Structural Biology, 2008, 161, 92-100.	1.3	47
57	Paired β -sheet structure of an A β (1-40) amyloid fibril revealed by electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7462-7466.	3.3	194
58	Directed selection of a conformational antibody domain that prevents mature amyloid fibril formation by stabilizing A β protofibrils. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19232-19237.	3.3	204
59	High-resolution Electron Microscopy of Helical Specimens: A Fresh Look at Tobacco Mosaic Virus. Journal of Molecular Biology, 2007, 371, 812-835.	2.0	231
60	Quaternary Structure of a Mature Amyloid Fibril from Alzheimer's A β (1-40) Peptide. Journal of Molecular Biology, 2006, 362, 347-354.	2.0	69
61	Concentration-Dependent Realignment of the Antimicrobial Peptide PGLa in Lipid Membranes Observed by Solid-State ^{19}F -NMR. Biophysical Journal, 2005, 88, 3392-3397.	0.2	151
62	Orientation of the antimicrobial peptide PGLa in lipid membranes determined from ^{19}F -NMR dipolar couplings of 4-CF $_3$ -phenylglycine labels. Journal of Magnetic Resonance, 2004, 168, 153-163.	1.2	110