

# Adam Frost

## List of Publications by Year in descending order

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54  
papers

6,894  
citations

136740

32  
h-index

182168

51  
g-index

93  
all docs

93  
docs citations

93  
times ranked

9338  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Ribosome-Bound Quality Control Complex Triggers Degradation of Nascent Peptides and Signals Translation Stress. <i>Cell</i> , 2012, 151, 1042-1054.	13.5	536
2	The BAR Domain Superfamily: Membrane-Molding Macromolecules. <i>Cell</i> , 2009, 137, 191-196.	13.5	522
3	Structural Basis of Membrane Invagination by F-BAR Domains. <i>Cell</i> , 2008, 132, 807-817.	13.5	509
4	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. <i>Science</i> , 2020, 370, .	6.0	508
5	GTP-dependent twisting of dynamin implicates constriction and tension in membrane fission. <i>Nature</i> , 2006, 441, 528-531.	13.7	432
6	Membrane fission by dynamin: what we know and what we need to know. <i>EMBO Journal</i> , 2016, 35, 2270-2284.	3.5	388
7	The F-BAR Domain of srGAP2 Induces Membrane Protrusions Required for Neuronal Migration and Morphogenesis. <i>Cell</i> , 2009, 138, 990-1004.	13.5	306
8	Rqc2p and 60 <i>S</i> ribosomal subunits mediate mRNA-independent elongation of nascent chains. <i>Science</i> , 2015, 347, 75-78.	6.0	245
9	Structure and membrane remodeling activity of ESCRT-III helical polymers. <i>Science</i> , 2015, 350, 1548-1551.	6.0	230
10	Structural Basis of Membrane Bending by the N-BAR Protein Endophilin. <i>Cell</i> , 2012, 149, 137-145.	13.5	220
11	Structural basis of mitochondrial receptor binding and constriction by DRP1. <i>Nature</i> , 2018, 558, 401-405.	13.7	219
12	Structures, Functions, and Dynamics of ESCRT-III/Vps4 Membrane Remodeling and Fission Complexes. <i>Annual Review of Cell and Developmental Biology</i> , 2018, 34, 85-109.	4.0	205
13	The ER membrane protein complex interacts cotranslationally to enable biogenesis of multipass membrane proteins. <i>ELife</i> , 2018, 7, .	2.8	160
14	Interchangeable adaptors regulate mitochondrial dynamin assembly for membrane scission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1342-51.	3.3	158
15	Functional Repurposing Revealed by Comparing <i>S. pombe</i> and <i>S. cerevisiae</i> Genetic Interactions. <i>Cell</i> , 2012, 149, 1339-1352.	13.5	154
16	LEM2 recruits CHMP7 for ESCRT-mediated nuclear envelope closure in fission yeast and human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2166-E2175.	3.3	149
17	Structure of the nucleotide exchange factor eIF2B reveals mechanism of memory-enhancing molecule. <i>Science</i> , 2018, 359, .	6.0	143
18	The Docking Protein FRS2 $\beta$ Controls a MAP Kinase-Mediated Negative Feedback Mechanism for Signaling by FGF Receptors. <i>Molecular Cell</i> , 2002, 10, 709-719.	4.5	142

#	ARTICLE	IF	CITATIONS
19	GIGYF2 and 4EHP Inhibit Translation Initiation of Defective Messenger RNAs to Assist Ribosome-Associated Quality Control. <i>Molecular Cell</i> , 2020, 79, 950-962.e6.	4.5	119
20	CAT-tailing as a fail-safe mechanism for efficient degradation of stalled nascent polypeptides. <i>Science</i> , 2017, 357, 414-417.	6.0	113
21	Subunit connectivity, assembly determinants and architecture of the yeast exocyst complex. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 59-66.	3.6	108
22	LEM2 phase separation promotes ESCRT-mediated nuclear envelope reformation. <i>Nature</i> , 2020, 582, 115-118.	13.7	97
23	eIF2B-catalyzed nucleotide exchange and phosphoregulation by the integrated stress response. <i>Science</i> , 2019, 364, 491-495.	6.0	96
24	FDM 3D Printing of High-Pressure, Heat-Resistant, Transparent Microfluidic Devices. <i>Analytical Chemistry</i> , 2018, 90, 10450-10456.	3.2	91
25	Vms1p is a release factor for the ribosome-associated quality control complex. <i>Nature Communications</i> , 2018, 9, 2197.	5.8	80
26	Membrane constriction and thinning by sequential ESCRT-III polymerization. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 392-399.	3.6	77
27	Dynamin regulates the dynamics and mechanical strength of the actin cytoskeleton as a multifilament actin-bundling protein. <i>Nature Cell Biology</i> , 2020, 22, 674-688.	4.6	70
28	Structural and mechanistic basis of the EMC-dependent biogenesis of distinct transmembrane clients. <i>ELife</i> , 2020, 9, .	2.8	66
29	Anisotropic ESCRT-III architecture governs helical membrane tube formation. <i>Nature Communications</i> , 2020, 11, 1516.	5.8	55
30	In vitro analysis of RQC activities provides insights into the mechanism and function of CAT tailing. <i>ELife</i> , 2017, 6, .	2.8	55
31	F-BAR Proteins Join the BAR Family Fold. <i>Structure</i> , 2007, 15, 751-753.	1.6	49
32	eIF2B conformation and assembly state regulate the integrated stress response. <i>ELife</i> , 2021, 10, .	2.8	46
33	Current outcomes when optimizing "standard" sample preparation for single-particle cryo-EM. <i>Journal of Microscopy</i> , 2019, 276, 39-45.	0.8	41
34	Structural inhibition of dynamin-mediated membrane fission by endophilin. <i>ELife</i> , 2017, 6, .	2.8	40
35	A Golgi rhomboid protease Rbd2 recruits Cdc48 to cleave yeast SREBP. <i>EMBO Journal</i> , 2016, 35, 2332-2349.	3.5	36
36	Photocatalytic LPOR forms helical lattices that shape membranes for chlorophyll synthesis. <i>Nature Plants</i> , 2021, 7, 437-444.	4.7	35

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37	Practical considerations for using K3 cameras in CDS mode for high-resolution and high-throughput single particle cryo-EM. <i>Journal of Structural Biology</i> , 2021, 213, 107745.	1.3	33
38	Exocyst structural changes associated with activation of tethering downstream of Rho/Cdc42 GTPases. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	32
39	Functional role of PGAM5 multimeric assemblies and their polymerization into filaments. <i>Nature Communications</i> , 2019, 10, 531.	5.8	30
40	Assessment of the nucleotide modifications in the high-resolution cryo-electron microscopy structure of the Escherichia coli 50S subunit. <i>Nucleic Acids Research</i> , 2020, 48, 2723-2732.	6.5	22
41	Ribosome-associated quality control and CAT tailing. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021, 56, 603-620.	2.3	14
42	Viral evasion of the integrated stress response through antagonism of eIF2-P binding to eIF2B. <i>Nature Communications</i> , 2021, 12, 7103.	5.8	14
43	Open and cut: allosteric motion and membrane fission by dynamin superfamily proteins. <i>Molecular Biology of the Cell</i> , 2019, 30, 2097-2104.	0.9	11
44	A Tunable Microfluidic Device Enables Cargo Encapsulation by Cell- or Organelle- Sized Lipid Vesicles Comprising Asymmetric Lipid Bilayers. <i>Advanced Biology</i> , 2019, 3, 1900010.	3.0	10
45	Directed evolution of the rRNA methylating enzyme Cfr reveals molecular basis of antibiotic resistance. <i>ELife</i> , 2022, 11, .	2.8	10
46	Structural and functional studies of membrane remodeling machines. <i>Methods in Cell Biology</i> , 2015, 128, 165-200.	0.5	7
47	Double agents for mitochondrial division. <i>Nature</i> , 2016, 540, 43-44.	13.7	7
48	A point mutation in the nucleotide exchange factor eIF2B constitutively activates the integrated stress response by allosteric modulation. <i>ELife</i> , 2022, 11, .	2.8	5
49	Membrane Trafficking: Decoding Vesicle Identity with Contrasting Chemistries. <i>Current Biology</i> , 2011, 21, R811-R813.	1.8	3
50	Membrane Constriction and Thinning by Sequential ESCRT-III Polymerization. <i>Biophysical Journal</i> , 2020, 118, 88a.	0.2	2
51	Primordial Protein Tails. <i>Molecular Cell</i> , 2021, 81, 6-7.	4.5	2
52	Visualizing BAR-Dependent Membrane Remodeling. <i>Microscopy and Microanalysis</i> , 2012, 18, 44-45.	0.2	0
53	Activation of the Exocyst Tethering Complex for SNARE Complex Regulation and Membrane Fusion. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
54	Molecular Mechanism of ESCRT-III Filament Formation. <i>FASEB Journal</i> , 2015, 29, 886.19.	0.2	0