

Benjamin D Engel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

2,390
citations

26
h-index

48
g-index

63
ext. papers

3,223
ext. citations

11.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
51	The Eukaryotic CO-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. <i>Cell</i> , 2017 , 171, 148-162.e19	56.2	191
50	Native architecture of the Chlamydomonas chloroplast revealed by in situ cryo-electron tomography. <i>ELife</i> , 2015 , 4,	8.9	166
49	Intraflagellar transport particle size scales inversely with flagellar length: revisiting the balance-point length control model. <i>Journal of Cell Biology</i> , 2009 , 187, 81-9	7.3	151
48	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. <i>Journal of Structural Biology</i> , 2017 , 197, 73-82	3.4	143
47	In Situ Cryo-Electron Tomography: A Post-Reductionist Approach to Structural Biology. <i>Journal of Molecular Biology</i> , 2016 , 428, 332-343	6.5	112
46	Structure of the membrane-assembled retromer coat determined by cryo-electron tomography. <i>Nature</i> , 2018 , 561, 561-564	50.4	104
45	Structural adaptations of photosynthetic complex I enable ferredoxin-dependent electron transfer. <i>Science</i> , 2019 , 363, 257-260	33.3	97
44	The structure of the COPI coat determined within the cell. <i>ELife</i> , 2017 , 6,	8.9	94
43	A cryo-FIB lift-out technique enables molecular-resolution cryo-ET within native Caenorhabditis elegans tissue. <i>Nature Methods</i> , 2019 , 16, 757-762	21.6	90
42	Intraflagellar transport complex structure and cargo interactions. <i>Cilia</i> , 2013 , 2, 10	5.5	85
41	In situ structural analysis of Golgi intracisternal protein arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11264-9	11.5	83
40	The role of retrograde intraflagellar transport in flagellar assembly, maintenance, and function. <i>Journal of Cell Biology</i> , 2012 , 199, 151-67	7.3	83
39	Dissecting the molecular organization of the translocon-associated protein complex. <i>Nature Communications</i> , 2017 , 8, 14516	17.4	82
38	Proteasomes tether to two distinct sites at the nuclear pore complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13726-13731	11.5	79
37	In situ architecture of the algal nuclear pore complex. <i>Nature Communications</i> , 2018 , 9, 2361	17.4	76
36	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. <i>Bio-protocol</i> , 2015 , 5,	0.9	72
35	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. <i>Nature Plants</i> , 2019 , 5, 436-446	11.5	66

34	Intraflagellar transport drives flagellar surface motility. <i>ELife</i> , 2013 , 2, e00744	8.9	63
33	Structural studies of ciliary components. <i>Journal of Molecular Biology</i> , 2012 , 422, 163-80	6.5	57
32	A helical inner scaffold provides a structural basis for centriole cohesion. <i>Science Advances</i> , 2020 , 6, eaaz4137	4.37	54
31	Integrative approaches for cellular cryo-electron tomography: correlative imaging and focused ion beam micromachining. <i>Methods in Cell Biology</i> , 2012 , 111, 259-81	1.8	51
30	Charting the native architecture of thylakoid membranes with single-molecule precision. <i>ELife</i> , 2020 , 9,	8.9	41
29	Total internal reflection fluorescence (TIRF) microscopy of Chlamydomonas flagella. <i>Methods in Cell Biology</i> , 2009 , 93, 157-77	1.8	38
28	Direct visualization of degradation microcompartments at the ER membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1069-1080	11.5	37
27	Getting tubulin to the tip of the cilium: one IFT train, many different tubulin cargo-binding sites?. <i>BioEssays</i> , 2014 , 36, 463-7	4.1	31
26	Structural insights into photosystem II assembly. <i>Nature Plants</i> , 2021 , 7, 524-538	11.5	31
25	The structural basis of Rubisco phase separation in the pyrenoid. <i>Nature Plants</i> , 2020 , 6, 1480-1490	11.5	25
24	Pea PSII-LHCII supercomplexes form pairs by making connections across the stromal gap. <i>Scientific Reports</i> , 2017 , 7, 10067	4.9	24
23	Architecture of the centriole cartwheel-containing region revealed by cryo-electron tomography. <i>EMBO Journal</i> , 2020 , 39, e106246	13	22
22	Frozen-hydrated chromatin from metaphase chromosomes has an interdigitated multilayer structure. <i>EMBO Journal</i> , 2019 , 38,	13	21
21	A cell-based screen for inhibitors of flagella-driven motility in Chlamydomonas reveals a novel modulator of ciliary length and retrograde actin flow. <i>Cytoskeleton</i> , 2011 , 68, 188-203	2.4	20
20	VIPP1 rods engulf membranes containing phosphatidylinositol phosphates. <i>Scientific Reports</i> , 2019 , 9, 8725	4.9	19
19	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity. <i>Cell</i> , 2021 , 184, 3643-3659.e23	56.2	17
18	VIPP2 interacts with VIPP1 and HSP22E/F at chloroplast membranes and modulates a retrograde signal for HSP22E/F gene expression. <i>Plant, Cell and Environment</i> , 2020 , 43, 1212-1229	8.4	14
17	The elusive actin cytoskeleton of a green alga expressing both conventional and divergent actins. <i>Molecular Biology of the Cell</i> , 2019 , 30, 2827-2837	3.5	9

16	Deep learning improves macromolecule identification in 3D cellular cryo-electron tomograms. <i>Nature Methods</i> , 2021 , 18, 1386-1394	21.6	9
15	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity		7
14	How to build a ribosome from RNA fragments in <i>Chlamydomonas</i> mitochondria. <i>Nature Communications</i> , 2021 , 12, 7176	17.4	5
13	Chlorophyll biogenesis sees the light. <i>Nature Plants</i> , 2021 , 7, 380-381	11.5	4
12	How to build a water-splitting machine: structural insights into photosystem II assembly		3
11	Cryo-FIB Lift-out Sample Preparation Using a Novel Cryo-gripper Tool. <i>Microscopy and Microanalysis</i> , 2017 , 23, 844-845	0.5	2
10	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1119-1120	0.5	2
9	In situ architecture of the ciliary base reveals the stepwise assembly of IFT trains		2
8	Charting the native architecture of thylakoid membranes with single-molecule precision		2
7	The Structural Basis of Rubisco Phase Separation in the Pyrenoid		2
6	In situ architecture of the algal nuclear pore complex		1
5	MemBrain: A Deep Learning-aided Pipeline for Automated Detection of Membrane Proteins in Cryo-electron Tomograms		1
4	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	0.5	0
3	Charting Molecular Landscapes Using Cryo-Electron Tomography. <i>Microscopy Today</i> , 2017 , 25, 26-31	0.4	
2	Cryo-FIB Sample Preparation for Cryo-ET With the Volta Phase Plate. <i>Microscopy and Microanalysis</i> , 2016 , 22, 72-73	0.5	
1	Expanding the arsenal of bacterial spearguns.. <i>Nature Microbiology</i> , 2022 , 7, 363-364	26.6	