Benjamin D Engel

List of Publications by Year in Descending Order

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	Expanding the arsenal of bacterial spearguns.. *Nature Microbiology*, **2022**, 7, 363-364	26.6	
50	Deep learning improves macromolecule identification in 3D cellular cryo-electron tomograms. *Nature Methods*, **2021**, 18, 1386-1394	21.6	9
49	Structural insights into photosystem II assembly. *Nature Plants*, **2021**, 7, 524-538	11.5	31
48	Chlorophyll biogenesis sees the light. *Nature Plants*, **2021**, 7, 380-381	11.5	4
47	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity. *Cell*, **2021**, 184, 3643-3659.e23	56.2	17
46	How to build a ribosome from RNA fragments in Chlamydomonas mitochondria. *Nature Communications*, **2021**, 12, 7176	17.4	5
45	A helical inner scaffold provides a structural basis for centriole cohesion. *Science Advances*, **2020**, 6, eaaz4137	11.7	54
44	VIPP2 interacts with VIPP1 and HSP22E/F at chloroplast membranes and modulates a retrograde signal for HSP22E/F gene expression. *Plant, Cell and Environment*, **2020**, 43, 1212-1229	8.4	14
43	Architecture of the centriole cartwheel-containing region revealed by cryo-electron tomography. *EMBO Journal*, **2020**, 39, e106246	13	22
42	Charting the native architecture of thylakoid membranes with single-molecule precision. *ELife*, **2020**, 9,	8.9	41
41	Direct visualization of degradation microcompartments at the ER membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1069-1080	11.5	37
40	The structural basis of Rubisco phase separation in the pyrenoid. *Nature Plants*, **2020**, 6, 1480-1490	11.5	25
39	The elusive actin cytoskeleton of a green alga expressing both conventional and divergent actins. *Molecular Biology of the Cell*, **2019**, 30, 2827-2837	3.5	9
38	Biogenic regions of cyanobacterial thylakoids form contact sites with the plasma membrane. *Nature Plants*, **2019**, 5, 436-446	11.5	66
37	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
36	VIPP1 rods engulf membranes containing phosphatidylinositol phosphates. *Scientific Reports*, **2019**, 9, 8725	4.9	19
35	Structural adaptations of photosynthetic complex I enable ferredoxin-dependent electron transfer. *Science*, **2019**, 363, 257-260	33.3	97

34	Frozen-hydrated chromatin from metaphase chromosomes has an interdigitated multilayer structure. *EMBO Journal*, **2019**, 38,	13	21
33	In situ architecture of the algal nuclear pore complex. *Nature Communications*, **2018**, 9, 2361	17.4	76
32	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
31	Structure of the membrane-assembled retromer coat determined by cryo-electron tomography. *Nature*, **2018**, 561, 561-564	50.4	104
30	Dissecting the molecular organization of the translocon-associated protein complex. *Nature Communications*, **2017**, 8, 14516	17.4	82
29	The Eukaryotic CO-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. *Cell* , **2017**, 171, 148-162.e19	56.2	191
28	Cryo-FIB Lift-out Sample Preparation Using a Novel Cryo-gripper Tool. *Microscopy and Microanalysis*, **2017**, 23, 844-845	0.5	2
27	Pea PSII-LHCII supercomplexes form pairs by making connections across the stromal gap. *Scientific Reports*, **2017**, 7, 10067	4.9	24
26	Charting Molecular Landscapes Using Cryo-Electron Tomography. *Microscopy Today*, **2017**, 25, 26-31	0.4	
25	Proteasomes tether to two distinct sites at the nuclear pore complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 13726-13731	11.5	79
24	Optimized cryo-focused ion beam sample preparation aimed at in situ structural studies of membrane proteins. *Journal of Structural Biology*, **2017**, 197, 73-82	3.4	143
23	The structure of the COPI coat determined within the cell. *ELife*, **2017**, 6,	8.9	94
22	In Situ Cryo-Electron Tomography: A Post-Reductionist Approach to Structural Biology. *Journal of Molecular Biology*, **2016**, 428, 332-343	6.5	112
21	Cryo-FIB Sample Preparation for Cryo-ET With the Volta Phase Plate. *Microscopy and Microanalysis*, **2016**, 22, 72-73	0.5	
20	In situ structural analysis of Golgi intracisternal protein arrays. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11264-9	11.5	83
19	In Situ Tomography of Membrane Proteins Enabled by Advanced Cryo-FIB Sample Preparation and Phase Plate Imaging. *Microscopy and Microanalysis*, **2015**, 21, 1119-1120	0.5	2
18	Native architecture of the Chlamydomonas chloroplast revealed by in situ cryo-electron tomography. *ELife*, **2015**, 4,	8.9	166
17	Cryo-focused Ion Beam Sample Preparation for Imaging Vitreous Cells by Cryo-electron Tomography. *Bio-protocol*, **2015**, 5,	0.9	72

16	Getting tubulin to the tip of the cilium: one IFT train, many different tubulin cargo-binding sites?. *BioEssays*, **2014**, 36, 463-7	4.1	31
15	Intraflagellar transport complex structure and cargo interactions. *Cilia*, **2013**, 2, 10	5.5	85
14	Intraflagellar transport drives flagellar surface motility. *ELife*, **2013**, 2, e00744	8.9	63
13	Structural studies of ciliary components. *Journal of Molecular Biology*, **2012**, 422, 163-80	6.5	57
12	Integrative approaches for cellular cryo-electron tomography: correlative imaging and focused ion beam micromachining. *Methods in Cell Biology*, **2012**, 111, 259-81	1.8	51
11	The role of retrograde intraflagellar transport in flagellar assembly, maintenance, and function. *Journal of Cell Biology*, **2012**, 199, 151-67	7.3	83
10	A cell-based screen for inhibitors of flagella-driven motility in Chlamydomonas reveals a novel modulator of ciliary length and retrograde actin flow. *Cytoskeleton*, **2011**, 68, 188-203	2.4	20
9	Total internal reflection fluorescence (TIRF) microscopy of Chlamydomonas flagella. *Methods in Cell Biology*, **2009**, 93, 157-77	1.8	38
8	Intraflagellar transport particle size scales inversely with flagellar length: revisiting the balance-point length control model. *Journal of Cell Biology*, **2009**, 187, 81-9	7.3	151
7	In situ architecture of the ciliary base reveals the stepwise assembly of IFT trains		2
6	In situ architecture of the algal nuclear pore complex		1
5	Charting the native architecture of thylakoid membranes with single-molecule precision		2
4	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity		7
3	The Structural Basis of Rubisco Phase Separation in the Pyrenoid		2
2	How to build a water-splitting machine: structural insights into photosystem II assembly		3
1	MemBrain: A Deep Learning-aided Pipeline for Automated Detection of Membrane Proteins in Cryo-electron Tomograms		1