

# Grant Jensen

## List of Publications by Year in Descending Order

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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.

163  
papers

8,873  
citations

55  
h-index

90  
g-index

195  
ext. papers

11,189  
ext. citations

11.5  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
163	UVC inactivation of pathogenic samples suitable for cryo-EM analysis.. <i>Communications Biology</i> , <b>2022</b> , 5, 29	6.7	2
162	Novel transient cytoplasmic rings stabilize assembling bacterial flagellar motors.. <i>EMBO Journal</i> , <b>2022</b> , e109523	13	3
161	Montage electron tomography of vitrified specimens.. <i>Journal of Structural Biology</i> , <b>2022</b> , 107860	3.4	1
160	A bacterial membrane sculpting protein with BAR domain-like activity. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
159	A cryo-electron tomography workflow reveals protrusion-mediated shedding on injured plasma membrane. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	5
158	Measuring gas vesicle dimensions by electron microscopy. <i>Protein Science</i> , <b>2021</b> , 30, 1081-1086	6.3	4
157	Challenges in solving structures from radiation-damaged tomograms of protein nanocrystals assessed by simulation. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 572-586	5.5	
156	Moltemplate: A Tool for Coarse-Grained Modeling of Complex Biological Matter and Soft Condensed Matter Physics. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166841	6.5	41
155	Loss of the Bacterial Flagellar Motor Switch Complex upon Cell Lysis. <i>MBio</i> , <b>2021</b> , 12, e0029821	7.8	1
154	Programmed Flagellar Ejection in <i>Caulobacter crescentus</i> Leaves PL-subcomplexes. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167004	6.5	2
153	Rapid tilt-series method for cryo-electron tomography: Characterizing stage behavior during FISE acquisition. <i>Journal of Structural Biology</i> , <b>2021</b> , 213, 107716	3.4	6
152	Generation of ordered protein assemblies using rigid three-body fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
151	Structure of the Bacterial Cellulose Ribbon and Its Assembly-Guiding Cytoskeleton by Electron Cryotomography. <i>Journal of Bacteriology</i> , <b>2021</b> , 203,	3.5	9
150	Simulations of Proposed Mechanisms of FtsZ-Driven Cell Constriction. <i>Journal of Bacteriology</i> , <b>2021</b> , 203,	3.5	3
149	: an Interactive Open-Access Microbiology Textbook. <i>Journal of Microbiology and Biology Education</i> , <b>2021</b> , 22,	1.3	2
148	The stress-sensing domain of activated IRE1 $\alpha$ forms helical filaments in narrow ER membrane tubes. <i>Science</i> , <b>2021</b> , 374, 52-57	33.3	5
147	In Situ Imaging and Structure Determination of Biomolecular Complexes Using Electron Cryo-Tomography. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2215, 83-111	1.4	3

146	Visualizing insulin vesicle neighborhoods in β-cells by cryo-electron tomography. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	5
145	Repurposing a chemosensory macromolecular machine. <i>Nature Communications</i> , <b>2020</b> , 11, 2041	17.4	14
144	Bacterial flagellar motor PL-ring disassembly subcomplexes are widespread and ancient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8941-8947	11.5	10
143	Ribosome-associated vesicles: A dynamic subcompartment of the endoplasmic reticulum in secretory cells. <i>Science Advances</i> , <b>2020</b> , 6, eaay9572	14.3	20
142	Effects of antimicrobial photodynamic therapy on antibiotic-resistant Escherichia coli. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2020</b> , 32, 102029	3.5	8
141	Correlated cryogenic fluorescence microscopy and electron cryo-tomography shows that exogenous TRIM5β can form hexagonal lattices or autophagy aggregates in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 29702-29711	11.5	6
140	PilY1 and minor pilins form a complex priming the type IVa pilus in Myxococcus xanthus. <i>Nature Communications</i> , <b>2020</b> , 11, 5054	17.4	25
139	CryoEM structure of the type IVa pilus secretin required for natural competence in Vibrio cholerae. <i>Nature Communications</i> , <b>2020</b> , 11, 5080	17.4	8
138	In Situ Imaging and Structure Determination of Bacterial Toxin Delivery Systems Using Electron Cryotomography. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1921, 249-265	1.4	2
137	Collection of Continuous Rotation MicroED Data from Ion Beam-Milled Crystals of Any Size. <i>Structure</i> , <b>2019</b> , 27, 545-548.e2	5.2	36
136	In situ imaging of the bacterial flagellar motor disassembly and assembly processes. <i>EMBO Journal</i> , <b>2019</b> , 38, e100957	13	26
135	Fusion of DARPin to Aldolase Enables Visualization of Small Protein by Cryo-EM. <i>Structure</i> , <b>2019</b> , 27, 1148-1155.e3	5.2	17
134	ETDB-Caltech: A blockchain-based distributed public database for electron tomography. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215531	3.7	23
133	Simulations suggest a constrictive force is required for Gram-negative bacterial cell division. <i>Nature Communications</i> , <b>2019</b> , 10, 1259	17.4	10
132	Molecular architecture, polar targeting and biogenesis of the Legionella Dot/Icm T4SS. <i>Nature Microbiology</i> , <b>2019</b> , 4, 1173-1182	26.6	42
131	FGF21 trafficking in intact human cells revealed by cryo-electron tomography with gold nanoparticles. <i>ELife</i> , <b>2019</b> , 8,	8.9	14
130	Electron Cryotomography of Bacterial Secretion Systems. <i>Microbiology Spectrum</i> , <b>2019</b> , 7,	8.9	6
129	Qualitative Analyses of Polishing and Precoating FIB Milled Crystals for MicroED. <i>Structure</i> , <b>2019</b> , 27, 1594-1600.e2	5.2	24

128	The presence and absence of periplasmic rings in bacterial flagellar motors correlates with stator type. <i>ELife</i> , <b>2019</b> , 8,	8.9	22
127	De Novo Structural Pattern Mining in Cellular Electron Cryotomograms. <i>Structure</i> , <b>2019</b> , 27, 679-691.e145.2	5.2	25
126	Distinct Chemotaxis Protein Paralogs Assemble into Chemoreceptor Signaling Arrays To Coordinate Signaling Output. <i>MBio</i> , <b>2019</b> , 10,	7.8	6
125	Electron Cryotomography of Bacterial Secretion Systems <b>2019</b> , 1-12		
124	Bacterial Swarming Reduces <i>Proteus mirabilis</i> and <i>Vibrio parahaemolyticus</i> Cell Stiffness and Increases $\beta$ -Lactam Susceptibility. <i>MBio</i> , <b>2019</b> , 10,	7.8	8
123	In vivo structure of the <i>Legionella</i> type II secretion system by electron cryotomography. <i>Nature Microbiology</i> , <b>2019</b> , 4, 2101-2108	26.6	15
122	Rapid tilt-series acquisition for electron cryotomography. <i>Journal of Structural Biology</i> , <b>2019</b> , 205, 163-169	4.4	53
121	Electron cryotomography of <i>Mycoplasma pneumoniae</i> mutants correlates terminal organelle architectural features and function. <i>Molecular Microbiology</i> , <b>2018</b> , 108, 306-318	4.1	8
120	Acoustically modulated magnetic resonance imaging of gas-filled protein nanostructures. <i>Nature Materials</i> , <b>2018</b> , 17, 456-463	27	49
119	Recombinantly Expressed Gas Vesicles as Nanoscale Contrast Agents for Ultrasound and Hyperpolarized MRI. <i>AICHE Journal</i> , <b>2018</b> , 64, 2927-2933	3.6	23
118	In Vivo Structures of the <i>Helicobacter pylori</i> cag Type IV Secretion System. <i>Cell Reports</i> , <b>2018</b> , 23, 673-681	10.6	48
117	Structure of the fission yeast actomyosin ring during constriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1455-E1464	11.5	26
116	Ultrastructure of MR-1 nanowires revealed by electron cryotomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3246-E3255	11.5	102
115	Distinguishing signal from autofluorescence in cryogenic correlated light and electron microscopy of mammalian cells. <i>Journal of Structural Biology</i> , <b>2018</b> , 201, 15-25	3.4	15
114	Coarse-grained simulations of actomyosin rings point to a nodeless model involving both unipolar and bipolar myosins. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 1318-1331	3.5	15
113	Nutrient transport suggests an evolutionary basis for charged archaeal surface layer proteins. <i>ISME Journal</i> , <b>2018</b> , 12, 2389-2402	11.9	32
112	Programmed Secretion Arrest and Receptor-Triggered Toxin Export during Antibacterial Contact-Dependent Growth Inhibition. <i>Cell</i> , <b>2018</b> , 175, 921-933.e14	56.2	39
111	Selective Permeability of Carboxysome Shell Pores to Anionic Molecules. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 9110-9118	3.4	32

110	Architecture of the <i>Vibrio cholerae</i> toxin-coregulated pilus machine revealed by electron cryotomography. <i>Nature Microbiology</i> , <b>2017</b> , 2, 16269	26.6	46
109	Polyphosphate granule biogenesis is temporally and functionally tied to cell cycle exit during starvation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2440-E2449	11.5	58
108	Progress and Potential of Electron Cryotomography as Illustrated by Its Application to Bacterial Chemoreceptor Arrays. <i>Annual Review of Biophysics</i> , <b>2017</b> , 46, 1-21	21.1	16
107	Cellular Electron Cryotomography: Toward Structural Biology In Situ. <i>Annual Review of Biochemistry</i> , <b>2017</b> , 86, 873-896	29.1	94
106	Short FtsZ filaments can drive asymmetric cell envelope constriction at the onset of bacterial cytokinesis. <i>EMBO Journal</i> , <b>2017</b> , 36, 1577-1589	13	41
105	The Structure, Function and Roles of the Archaeal ESCRT Apparatus. <i>Sub-Cellular Biochemistry</i> , <b>2017</b> , 84, 357-377	5.5	16
104	structures of an intact type VI secretion system revealed by electron cryotomography. <i>EMBO Reports</i> , <b>2017</b> , 18, 1090-1099	6.5	48
103	Uncharacterized Bacterial Structures Revealed by Electron Cryotomography. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	29
102	structure of the Dot/Icm type IV secretion system by electron cryotomography. <i>EMBO Reports</i> , <b>2017</b> , 18, 726-732	6.5	70
101	Giant viruses with an expanded complement of translation system components. <i>Science</i> , <b>2017</b> , 356, 82-85	33.3	148
100	The Variable Internal Structure of the <i>Mycoplasma penetrans</i> Attachment Organelle Revealed by Biochemical and Microscopic Analyses: Implications for Attachment Organelle Mechanism and Evolution. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	7
99	Dynamics of the peptidoglycan biosynthetic machinery in the stalked budding bacterium <i>Hyphomonas neptunium</i> . <i>Molecular Microbiology</i> , <b>2017</b> , 103, 875-895	4.1	26
98	FtsEX-mediated regulation of the final stages of cell division reveals morphogenetic plasticity in <i>Caulobacter crescentus</i> . <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006999	6	25
97	LytM factors affect the recruitment of autolysins to the cell division site in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , <b>2017</b> , 106, 419-438	4.1	17
96	Preparation of biogenic gas vesicle nanostructures for use as contrast agents for ultrasound and MRI. <i>Nature Protocols</i> , <b>2017</b> , 12, 2050-2080	18.8	64
95	Morphology of the archaellar motor and associated cytoplasmic cone in. <i>EMBO Reports</i> , <b>2017</b> , 18, 1660-1670	13.0	28
94	Photon-Induced Near-Field Electron Microscopy of Eukaryotic Cells. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 11656-11659	3.6	11659
93	The development of cryo-EM and how it has advanced microbiology. <i>Nature Microbiology</i> , <b>2017</b> , 2, 1577-1579	15.0	7

92	Assigning chemoreceptors to chemosensory pathways in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12809-12814	11.5	45
91	Polar delivery of type IV secretion system substrates is essential for virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 8077-8082	11.5	35
90	Starvation and recovery in the deep-sea methanotroph <i>Methyloprofundus sedimenti</i> . <i>Molecular Microbiology</i> , <b>2017</b> , 103, 242-252	4.1	30
89	Electron Cryotomography of Vitreous Cryosections and Cryo-Focused Ion Beam Milled Lamellae.. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 2314-2315	0.5	
88	Nitrosopumilus maritimus gen. nov., sp. nov., Nitrosopumilus cobalaminigenes sp. nov., Nitrosopumilus oxycliniae sp. nov., and Nitrosopumilus ureiphilus sp. nov., four marine ammonia-oxidizing archaea of the phylum Thaumarchaeota. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2017</b> , 67, 5067-5079	2.2	91
87	Chemotaxis cluster 1 proteins form cytoplasmic arrays in <i>Vibrio cholerae</i> and are stabilized by a double signaling domain receptor DosM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10412-7	11.5	31
86	Coarse-grained simulation reveals key features of HIV-1 capsid self-assembly. <i>Nature Communications</i> , <b>2016</b> , 7, 11568	17.4	85
85	Cryo-EM structure of a CD4-bound open HIV-1 envelope trimer reveals structural rearrangements of the gp120 V1V2 loop. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E7151-E7158	11.5	97
84	Coarse-Grained Molecular Dynamics Simulations of the Bacterial Cell Wall. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1440, 247-70	1.4	2
83	Sporulation, bacterial cell envelopes and the origin of life. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 535-542	22.2	52
82	Architecture of the type IVa pilus machine. <i>Science</i> , <b>2016</b> , 351, aad2001	33.3	233
81	Dynamic Remodeling of the Magnetosome Membrane Is Triggered by the Initiation of Biomineralization. <i>MBio</i> , <b>2016</b> , 7, e01898-15	7.8	27
80	Diverse high-torque bacterial flagellar motors assemble wider stator rings using a conserved protein scaffold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1917-26	11.5	115
79	A new view into prokaryotic cell biology from electron cryotomography. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 205-20	22.2	63
78	Primate TRIM5 proteins form hexagonal nets on HIV-1 capsids. <i>ELife</i> , <b>2016</b> , 5,	8.9	61
77	Phylogenomic analysis of Candidatus <i>Tzimaplasma</i> species: free-living representatives from a Tenericutes clade found in methane seeps. <i>ISME Journal</i> , <b>2016</b> , 10, 2679-2692	11.9	51
76	Author's reply. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 600	22.2	
75	Structural conservation of chemotaxis machinery across Archaea and Bacteria. <i>Environmental Microbiology Reports</i> , <b>2015</b> , 7, 414-9	3.7	67

74	The Caltech Tomography Database and Automatic Processing Pipeline. <i>Journal of Structural Biology</i> , <b>2015</b> , 192, 279-86	3.4	20
73	Coarse-grained simulations of bacterial cell wall growth reveal that local coordination alone can be sufficient to maintain rod shape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E3689-98	11.5	35
72	Streptomyces: a screening tool for bacterial cell division inhibitors. <i>Journal of Biomolecular Screening</i> , <b>2015</b> , 20, 275-84		4
71	Direct visualization of vaults within intact cells by electron cryo-tomography. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 3401-9	10.3	16
70	Electron cryotomography studies of maturing HIV-1 particles reveal the assembly pathway of the viral core. <i>Journal of Virology</i> , <b>2015</b> , 89, 1267-77	6.6	46
69	New insights into bacterial chemoreceptor array structure and assembly from electron cryotomography. <i>Biochemistry</i> , <b>2014</b> , 53, 1575-85	3.2	62
68	Marine tubeworm metamorphosis induced by arrays of bacterial phage tail-like structures. <i>Science</i> , <b>2014</b> , 343, 529-33	33.3	161
67	Correlated cryogenic photoactivated localization microscopy and cryo-electron tomography. <i>Nature Methods</i> , <b>2014</b> , 11, 737-9	21.6	155
66	Escherichia coli peptidoglycan structure and mechanics as predicted by atomic-scale simulations. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003475	5	66
65	Ultrastructure and complex polar architecture of the human pathogen <i>Campylobacter jejuni</i> . <i>MicrobiologyOpen</i> , <b>2014</b> , 3, 702-10	3.4	17
64	Structure of bacterial cytoplasmic chemoreceptor arrays and implications for chemotactic signaling. <i>ELife</i> , <b>2014</b> , 3, e02151	8.9	73
63	Discovery of chlamydial peptidoglycan reveals bacteria with murein sacculi but without FtsZ. <i>Nature Communications</i> , <b>2013</b> , 4, 2856	17.4	106
62	The mobility of two kinase domains in the Escherichia coli chemoreceptor array varies with signalling state. <i>Molecular Microbiology</i> , <b>2013</b> , 89, 831-41	4.1	45
61	Architecture of the major component of the type III secretion system export apparatus. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 99-104	17.6	161
60	The bacterial cytoskeleton: more than twisted filaments. <i>Current Opinion in Cell Biology</i> , <b>2013</b> , 25, 125-33		46
59	Architecture and assembly of the Gram-positive cell wall. <i>Molecular Microbiology</i> , <b>2013</b> , 88, 664-72	4.1	85
58	Polyphosphate storage during sporulation in the gram-negative bacterium <i>Acetonebma longum</i> . <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 3940-6	3.5	32
57	Electron cryotomography of ESCRT assemblies and dividing <i>Sulfolobus</i> cells suggests that spiraling filaments are involved in membrane scission. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 2319-27	3.5	68

56	General protein diffusion barriers create compartments within bacterial cells. <i>Cell</i> , <b>2012</b> , 151, 1270-82	56.2	55
55	Electron tomography of cells. <i>Quarterly Reviews of Biophysics</i> , <b>2012</b> , 45, 27-56	7	114
54	Growth and localization of polyhydroxybutyrate granules in <i>Ralstonia eutropha</i> . <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 1092-9	3.5	58
53	Data management challenges in three-dimensional EM. <i>Nature Structural and Molecular Biology</i> , <b>2012</b> , 19, 1203-7	17.6	34
52	A multidomain hub anchors the chromosome segregation and chemotactic machinery to the bacterial pole. <i>Genes and Development</i> , <b>2012</b> , 26, 2348-60	12.6	118
51	The helical MreB cytoskeleton in <i>Escherichia coli</i> MC1000/pLE7 is an artifact of the N-Terminal yellow fluorescent protein tag. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 6382-6	3.5	157
50	Bacterial chemoreceptor arrays are hexagonally packed trimers of receptor dimers networked by rings of kinase and coupling proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3766-71	11.5	188
49	Peptidoglycan remodeling and conversion of an inner membrane into an outer membrane during sporulation. <i>Cell</i> , <b>2011</b> , 146, 799-812	56.2	75
48	Long helical filaments are not seen encircling cells in electron cryotomograms of rod-shaped bacteria. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 407, 650-5	3.4	69
47	Nanopods: a new bacterial structure and mechanism for deployment of outer membrane vesicles. <i>PLoS ONE</i> , <b>2011</b> , 6, e20725	3.7	54
46	Activated chemoreceptor arrays remain intact and hexagonally packed. <i>Molecular Microbiology</i> , <b>2011</b> , 82, 748-57	4.1	34
45	Structural diversity of bacterial flagellar motors. <i>EMBO Journal</i> , <b>2011</b> , 30, 2972-81	13	214
44	Alternative mechanism for bacteriophage adsorption to the motile bacterium <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9963-8	11.5	78
43	Microtubules in bacteria: Ancient tubulins build a five-protofilament homolog of the eukaryotic cytoskeleton. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001213	9.7	88
42	Bactofilins, a ubiquitous class of cytoskeletal proteins mediating polar localization of a cell wall synthase in <i>Caulobacter crescentus</i> . <i>EMBO Journal</i> , <b>2010</b> , 29, 327-39	13	98
41	The metabolic enzyme CTP synthase forms cytoskeletal filaments. <i>Nature Cell Biology</i> , <b>2010</b> , 12, 739-46	23.4	188
40	Electron cryotomography. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a003442	10.2	59
39	Organization, structure, and assembly of alpha-carboxysomes determined by electron cryotomography of intact cells. <i>Journal of Molecular Biology</i> , <b>2010</b> , 396, 105-17	6.5	124



38	Bacterial TEM: new insights from cryo-microscopy. <i>Methods in Cell Biology</i> , <b>2010</b> , 96, 21-45	1.8	59
37	Correlated light and electron cryo-microscopy. <i>Methods in Enzymology</i> , <b>2010</b> , 481, 317-41	1.7	63
36	Plunge freezing for electron cryomicroscopy. <i>Methods in Enzymology</i> , <b>2010</b> , 481, 63-82	1.7	79
35	Universal architecture of bacterial chemoreceptor arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 17181-6	11.5	244
34	Cell biology. Protein filaments caught in the act. <i>Science</i> , <b>2009</b> , 323, 472-3	33.3	3
33	Fully automated, sequential tilt-series acquisition with Legimon. <i>Journal of Structural Biology</i> , <b>2009</b> , 167, 11-8	3.4	151
32	Nanogold as a specific marker for electron cryotomography. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 183-85	8.5	7
31	FcRn-mediated antibody transport across epithelial cells revealed by electron tomography. <i>Nature</i> , <b>2008</b> , 455, 542-6	50.4	131
30	Novel ultrastructures of <i>Treponema primitia</i> and their implications for motility. <i>Molecular Microbiology</i> , <b>2008</b> , 67, 1184-95	4.1	41
29	Location and architecture of the <i>Caulobacter crescentus</i> chemoreceptor array. <i>Molecular Microbiology</i> , <b>2008</b> , 69, 30-41	4.1	102
28	A self-associating protein critical for chromosome attachment, division, and polar organization in <i>caulobacter</i> . <i>Cell</i> , <b>2008</b> , 134, 956-68	56.2	223
27	Fast nonlocal filtering applied to electron cryomicroscopy <b>2008</b> ,		106
26	Molecular organization of Gram-negative peptidoglycan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18953-7	11.5	197
25	An improved cryogen for plunge freezing. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 375-9	0.5	205
24	The structure of FtsZ filaments in vivo suggests a force-generating role in cell division. <i>EMBO Journal</i> , <b>2007</b> , 26, 4694-708	13	307
23	How electron cryotomography is opening a new window onto prokaryotic ultrastructure. <i>Current Opinion in Structural Biology</i> , <b>2007</b> , 17, 260-7	8.1	71
22	The structure of isolated <i>Synechococcus</i> strain WH8102 carboxysomes as revealed by electron cryotomography. <i>Journal of Molecular Biology</i> , <b>2007</b> , 372, 764-73	6.5	125
21	Magnetosomes are cell membrane invaginations organized by the actin-like protein MamK. <i>Science</i> , <b>2006</b> , 311, 242-5	33.3	522

20	Electron cryotomography sample preparation using the Vitrobot. <i>Nature Protocols</i> , <b>2006</b> , 1, 2813-9	18.8	145
19	In situ structure of the complete <i>Treponema primitia</i> flagellar motor. <i>Nature</i> , <b>2006</b> , 442, 1062-4	50.4	150
18	A "flip-flop" rotation stage for routine dual-axis electron cryotomography. <i>Journal of Structural Biology</i> , <b>2005</b> , 151, 288-97	3.4	57
17	Alignment error envelopes for single particle analysis. <i>Journal of Structural Biology</i> , <b>2001</b> , 133, 143-55	3.4	35
16	Defocus-gradient corrected back-projection. <i>Ultramicroscopy</i> , <b>2000</b> , 84, 57-64	3.1	44
15	Single-particle selection and alignment with heavy atom cluster-antibody conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 9262-7	11.5	18
14	Structure of Wild Type Yeast RNA Polymerase II and Location of RPB4 and RPB7. <i>Microscopy and Microanalysis</i> , <b>1998</b> , 4, 972-973	0.5	1
13	Stable sub-complexes observed in situ suggest a modular assembly pathway of the bacterial flagellar motor		3
12	In vivo structures of the <i>Helicobacter pylori</i> cag type IV secretion system		1
11	A Prokaryotic Membrane Sculpting BAR Domain Protein		1
10	Generation of ordered protein assemblies using rigid three-body fusion		4
9	Bacterial swarming reduces <i>Proteus mirabilis</i> and <i>Vibrio parahaemolyticus</i> cell stiffness and increases $\beta$ -lactam susceptibility		1
8	Molecular architecture of the <i>Legionella</i> Dot/Icm type IV secretion system		6
7	Polar targeting and assembly of the <i>Legionella</i> Dot/Icm type IV secretion system (T4SS) by T6SS-related components		3
6	The structural complexity of the Gammaproteobacteria flagellar motor is related to the type of its torque-generating stators		2
5	Fusion of DARPin to aldolase enables visualization of small protein by cryoEM		3
4	In vivo structure of the <i>Legionella</i> type II secretion system by electron cryotomography		3
3	Repurposing a macromolecular machine: Architecture and evolution of the F7 chemosensory system		2

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|---|---|---|
| 2 | Regular Architecture (RegArch): A standard expression language for describing protein architectures | 1 |
| 1 | Simulations of proposed mechanisms of FtsZ-driven cell constriction                                 | 2 |