

# Ariane Briegel

## 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.

81

papers

3,333

citations

29

h-index

57

g-index

107

ext. papers

4,256

ext. citations

7.9

avg, IF

5.2

L-index

#	Paper	IF	Citations
81	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
80	A self-associating protein critical for chromosome attachment, division, and polar organization in caulobacter. <i>Cell</i> , <b>2008</b> , 134, 956-68	56.2	223
79	Structural diversity of bacterial flagellar motors. <i>EMBO Journal</i> , <b>2011</b> , 30, 2972-81	13	214
78	An improved cryogen for plunge freezing. <i>Microscopy and Microanalysis</i> , <b>2008</b> , 14, 375-9	0.5	205
77	The metabolic enzyme CTP synthase forms cytoskeletal filaments. <i>Nature Cell Biology</i> , <b>2010</b> , 12, 739-46	23.4	188
76	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
75	Electron cryotomography sample preparation using the Vitrobot. <i>Nature Protocols</i> , <b>2006</b> , 1, 2813-9	18.8	145
74	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
73	Location and architecture of the <i>Caulobacter crescentus</i> chemoreceptor array. <i>Molecular Microbiology</i> , <b>2008</b> , 69, 30-41	4.1	102
72	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
71	Multiple large filament bundles observed in <i>Caulobacter crescentus</i> by electron cryotomography. <i>Molecular Microbiology</i> , <b>2006</b> , 62, 5-14	4.1	96
70	The unique structure of archaeal flagellar highly complex cell appendages with nano-grappling hooks. <i>Molecular Microbiology</i> , <b>2005</b> , 56, 361-70	4.1	83
69	Structure of bacterial cytoplasmic chemoreceptor arrays and implications for chemotactic signaling. <i>ELife</i> , <b>2014</b> , 3, e02151	8.9	73
68	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
67	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
66	Structural conservation of chemotaxis machinery across Archaea and Bacteria. <i>Environmental Microbiology Reports</i> , <b>2015</b> , 7, 414-9	3.7	67
65	<i>Ignicoccus hospitalis</i> and <i>Nanoarchaeum equitans</i> : ultrastructure, cell-cell interaction, and 3D reconstruction from serial sections of freeze-substituted cells and by electron cryotomography. <i>Archives of Microbiology</i> , <b>2008</b> , 190, 395-408	3	66

64	Correlated light and electron cryo-microscopy. <i>Methods in Enzymology</i> , <b>2010</b> , 481, 317-41	1.7	63
63	New insights into bacterial chemoreceptor array structure and assembly from electron cryotomography. <i>Biochemistry</i> , <b>2014</b> , 53, 1575-85	3.2	62
62	DipM, a new factor required for peptidoglycan remodelling during cell division in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , <b>2010</b> , 77, 90-107	4.1	61
61	General protein diffusion barriers create compartments within bacterial cells. <i>Cell</i> , <b>2012</b> , 151, 1270-82	56.2	55
60	Stygiolobus rod-shaped virus and the interplay of crenarchaeal rudiviruses with the CRISPR antiviral system. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 6837-45	3.5	55
59	Phylogenomic analysis of <i>Candidatus Uzimaplasma</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
58	εproteobacteria eject their polar flagella under nutrient depletion, retaining flagellar motor relic structures. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000165	9.7	49
57	The mobility of two kinase domains in the <i>Escherichia coli</i> chemoreceptor array varies with signalling state. <i>Molecular Microbiology</i> , <b>2013</b> , 89, 831-41	4.1	45
56	Structural asymmetry in a conserved signaling system that regulates division, replication, and virulence of an intracellular pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E3709-18	11.5	43
55	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
54	Activated chemoreceptor arrays remain intact and hexagonally packed. <i>Molecular Microbiology</i> , <b>2011</b> , 82, 748-57	4.1	34
53	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
52	Uncharacterized Bacterial Structures Revealed by Electron Cryotomography. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	29
51	Morphology of the archaeellar motor and associated cytoplasmic cone in. <i>EMBO Reports</i> , <b>2017</b> , 18, 1660-1670	16.7	28
50	Structural and Proteomic Changes in Viable but Non-culturable. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 793	5.7	24
49	Stress-induced formation of cell wall-deficient cells in filamentous actinomycetes. <i>Nature Communications</i> , <b>2018</b> , 9, 5164	17.4	24
48	Coupling chemosensory array formation and localization. <i>ELife</i> , <b>2017</b> , 6,	8.9	23
47	Recent advances and future prospects in bacterial and archaeal locomotion and signal transduction. <i>Journal of Bacteriology</i> , <b>2017</b> , 199, e00203-17	3.5	22

46	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
45	Mutations in the Lipopolysaccharide biosynthesis pathway interfere with crescentin-mediated cell curvature in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 3368-78	3.5	21
44	Conformational Changes of the <i>Escherichia coli</i> Serine Chemoreceptor in Different Signaling States. <i>MBio</i> , <b>2019</b> , 10,	7.8	20
43	Regulation of the chemotaxis histidine kinase CheA: A structural perspective. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183030	3.8	18
42	Diversity of Bacterial Chemosensory Arrays. <i>Trends in Microbiology</i> , <b>2020</b> , 28, 68-80	12.4	18
41	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
40	Baseplate variability of chemoreceptor arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 13365-13370	11.5	17
39	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
38	Stress-induced adaptive morphogenesis in bacteria. <i>Advances in Microbial Physiology</i> , <b>2019</b> , 74, 97-141	4.4	15
37	Chemotaxis arrays in species and their intracellular positioning by the ParC/ParP system. <i>Journal of Bacteriology</i> , <b>2018</b> , 200, e00793-17	3.5	15
36	Repurposing a chemosensory macromolecular machine. <i>Nature Communications</i> , <b>2020</b> , 11, 2041	17.4	14
35	The challenge of determining handedness in electron tomography and the use of DNA origami gold nanoparticle helices as molecular standards. <i>Journal of Structural Biology</i> , <b>2013</b> , 183, 95-8	3.4	12
34	Electron cryotomography of bacterial cells. <i>Journal of Visualized Experiments</i> , <b>2010</b> ,	1.6	12
33	<i>Tetrasphaera remsis</i> sp. nov., isolated from the Regenerative Enclosed Life Support Module Simulator (REMS) air system. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2007</b> , 57, 2749-2753	2.2	12
32	His-Tag-Mediated Dimerization of Chemoreceptors Leads to Assembly of Functional Nanoarrays. <i>Biochemistry</i> , <b>2017</b> , 56, 5874-5885	3.2	11
31	Periplasmic protein EipA determines envelope stress resistance and virulence in <i>Brucella abortus</i> . <i>Molecular Microbiology</i> , <b>2019</b> , 111, 637-661	4.1	10
30	The chemosensory systems of <i>Vibrio cholerae</i> . <i>Molecular Microbiology</i> , <b>2020</b> , 114, 367-376	4.1	8
29	Atypical chemoreceptor arrays accommodate high membrane curvature. <i>Nature Communications</i> , <b>2020</b> , 11, 5763	17.4	8

28	Species-Specific Recognition of Mediated by UV-Inducible Pili and S-Layer Glycosylation Patterns. <i>MBio</i> , <b>2020</b> , 11,	7.8	7
27	Teichoic acids anchor distinct cell wall lamellae in an apically growing bacterium. <i>Communications Biology</i> , <b>2020</b> , 3, 314	6.7	7
26	Microbial hitchhiking: how Streptomyces spores are transported by motile soil bacteria. <i>ISME Journal</i> , <b>2021</b> , 15, 2591-2600	11.9	6
25	Distinct Chemotaxis Protein Paralogs Assemble into Chemoreceptor Signaling Arrays To Coordinate Signaling Output. <i>MBio</i> , <b>2019</b> , 10,	7.8	6
24	Periplasmic Protein EipB Is a Molecular Determinant of Cell Envelope Integrity and Virulence. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	5
23	Polysaccharide length affects mycobacterial cell shape and antibiotic susceptibility. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	5
22	Intermicrobial Hitchhiking: How Nonmotile Microbes Leverage Communal Motility. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 542-550	12.4	4
21	βproteobacteria eject their polar flagella under nutrient depletion, retaining flagellar motor relic structures		3
20	Isolation and Characterization of Phage Thanatos Infecting and Lysing and Promoting Nascent Biofilm Formation. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 573260	5.7	3
19	Formation of wall-less cells in <i>Kitasatospora viridifaciens</i> requires cytoskeletal protein FilP in oxygen-limiting conditions. <i>Molecular Microbiology</i> , <b>2021</b> , 115, 1181-1190	4.1	3
18	Antibiotic action revealed by real-time imaging of the mycobacterial membrane		2
17	UVC inactivation of pathogenic samples suitable for cryo-EM analysis.. <i>Communications Biology</i> , <b>2022</b> , 5, 29	6.7	2
16	Repurposing a macromolecular machine: Architecture and evolution of the F7 chemosensory system		2
15	Bacterial and Archaeal Cell Structure <b>2019</b> ,		2
14	Cell wall deficiency as an escape mechanism from phage infection. <i>Open Biology</i> , <b>2021</b> , 11, 210199	7	2
13	How advances in cryo-electron tomography have contributed to our current view of bacterial cell biology.. <i>Journal of Structural Biology: X</i> , <b>2022</b> , 6, 100065	2.9	2
12	Use of Cryo-EM to Study the Structure of Chemoreceptor Arrays In Vivo. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1729, 173-185	1.4	1
11	An Open-Source Storage Solution for Cryo-Electron Microscopy Samples. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 60-63	0.5	1

10	Exploring the Inner Space of Cells by Cryoelectron-Tomography. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 152-153	0.5	1
9	Microbial piggy-back: how Streptomyces spores are transported by motile soil bacteria		1
8	Structural and proteomic changes in viable but non-culturable Vibrio cholerae		1
7	Structure of the archaeellar motor and associated cytoplasmic cone in Thermococcus kodakaraensis		1
6	Loss of the Bacterial Flagellar Motor Switch Complex upon Cell Lysis. <i>MBio</i> , <b>2021</b> , 12, e0029821	7.8	1
5	An Economical, Portable Manual Cryogenic Plunge Freezer for the Preparation of Vitrified Biological Samples for Cryogenic Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 413-418	0.5	0
4	The VarA-CsrA regulatory pathway influences cell shape in Vibrio cholerae.. <i>PLoS Genetics</i> , <b>2022</b> , 18, e1010143	0.5	0
3	Mathematical Mirroring for Identification of Local Symmetry Centers in Microscopic Images Local Symmetry Detection in FIJI. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 978-988	0.5	
2	New Insights Into Bacterial Chemoreceptor Array From Electron Cryotomography. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1336-1337	0.5	
1	Signal Extraction and Visualization of Biological Structures from Electron Tomograms. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 392-393	0.5	