

Martin Pilhofer

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,533
citations

201674

27
h-index

302126

39
g-index

47
all docs

47
docs citations

47
times ranked

3143
citing authors

#	ARTICLE	IF	CITATIONS
1	Prophage-triggered membrane vesicle formation through peptidoglycan damage in <i>Bacillus subtilis</i> . <i>Nature Communications</i> , 2017, 8, 481.	12.8	224
2	Marine Tubeworm Metamorphosis Induced by Arrays of Bacterial Phage Tail-Like Structures. <i>Science</i> , 2014, 343, 529-533.	12.6	223
3	Tunable Single-Cell Extraction for Molecular Analyses. <i>Cell</i> , 2016, 166, 506-516.	28.9	155
4	Characterization and Evolution of Cell Division and Cell Wall Synthesis Genes in the Bacterial Phyla <i>Verrucomicrobia</i> , <i>Lentisphaerae</i> , <i>Chlamydiae</i> , and <i>Planctomycetes</i> and Phylogenetic Comparison with rRNA Genes. <i>Journal of Bacteriology</i> , 2008, 190, 3192-3202.	2.2	133
5	In situ architecture, function, and evolution of a contractile injection system. <i>Science</i> , 2017, 357, 713-717.	12.6	123
6	Microtubules in Bacteria: Ancient Tubulins Build a Five-Protofilament Homolog of the Eukaryotic Cytoskeleton. <i>PLoS Biology</i> , 2011, 9, e1001213.	5.6	108
7	Intestinal epithelial NAI1/NLRC4 restricts systemic dissemination of the adapted pathogen <i>Salmonella Typhimurium</i> due to site-specific bacterial PAMP expression. <i>Mucosal Immunology</i> , 2020, 13, 530-544.	6.0	94
8	Bacterial TEM. <i>Methods in Cell Biology</i> , 2010, 96, 21-45.	1.1	89
9	Architecture and function of human uromodulin filaments in urinary tract infections. <i>Science</i> , 2020, 369, 1005-1010.	12.6	81
10	Structure and Function of a Bacterial Gap Junction Analog. <i>Cell</i> , 2019, 178, 374-384.e15.	28.9	78
11	Fully automated, sequential focused ion beam milling for cryo-electron tomography. <i>ELife</i> , 2020, 9, .	6.0	78
12	Long helical filaments are not seen encircling cells in electron cryotomograms of rod-shaped bacteria. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 650-655.	2.1	75
13	The in situ structures of mono-, di-, and trinucleosomes in human heterochromatin. <i>Molecular Biology of the Cell</i> , 2018, 29, 2450-2457.	2.1	73
14	In situ and high-resolution cryo-EM structure of a bacterial type VI secretion system membrane complex. <i>EMBO Journal</i> , 2019, 38, .	7.8	72
15	Improved applicability and robustness of fast cryo-electron tomography data acquisition. <i>Journal of Structural Biology</i> , 2019, 208, 107-114.	2.8	70
16	Robust workflow and instrumentation for cryo-focused ion beam milling of samples for electron cryotomography. <i>Ultramicroscopy</i> , 2018, 190, 1-11.	1.9	68
17	Characterization of bacterial operons consisting of two tubulins and a kinesin-like gene by the novel Two-Step Gene Walking method. <i>Nucleic Acids Research</i> , 2007, 35, e135-e135.	14.5	65
18	Stepwise metamorphosis of the tubeworm <i>Hydroides elegans</i> is mediated by a bacterial inducer and MAPK signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10097-10102.	7.1	63

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19	Coexistence of Tubulins and ftsZ in Different Prosthecobacter Species. <i>Molecular Biology and Evolution</i> , 2007, 24, 1439-1442.	8.9	52
20	The bacterial cytoskeleton: more than twisted filaments. <i>Current Opinion in Cell Biology</i> , 2013, 25, 125-133.	5.4	52
21	A contractile injection system stimulates tubeworm metamorphosis by translocating a proteinaceous effector. <i>ELife</i> , 2019, 8, .	6.0	52
22	Effector loading onto the VgrG carrier activates type VI secretion system assembly. <i>EMBO Reports</i> , 2020, 21, e47961.	4.5	47
23	The diversity of fungi in aerobic sewage granules assessed by 18S rRNA gene and ITS sequence analyses. <i>FEMS Microbiology Ecology</i> , 2009, 68, 246-254.	2.7	41
24	Optimization of three FISH procedures for in situ detection of anaerobic ammonium oxidizing bacteria in biological wastewater treatment. <i>Journal of Microbiological Methods</i> , 2009, 78, 119-126.	1.6	41
25	A Bacterial Phage Tail-like Structure Kills Eukaryotic Cells by Injecting a Nuclease Effector. <i>Cell Reports</i> , 2019, 28, 295-301.e4.	6.4	39
26	Architecture and host interface of environmental chlamydiae revealed by electron cryotomography. <i>Environmental Microbiology</i> , 2014, 16, 417-429.	3.8	38
27	Salmonella Typhimurium discrete-invasion of the murine gut absorptive epithelium. <i>PLoS Pathogens</i> , 2020, 16, e1008503.	4.7	37
28	In Situ Imaging of Bacterial Secretion Systems by Electron Cryotomography. <i>Methods in Molecular Biology</i> , 2017, 1615, 353-375.	0.9	32
29	Imaging bacteria inside their host by cryo-focused ion beam milling and electron cryotomography. <i>Current Opinion in Microbiology</i> , 2018, 43, 62-68.	5.1	30
30	Cultivation of a vampire: <i>Candidatus Absconditicoccus praedator</i> TM . <i>Environmental Microbiology</i> , 2022, 24, 30-49.	3.8	30
31	The cryo-EM structure of the human uromodulin filament core reveals a unique assembly mechanism. <i>ELife</i> , 2020, 9, .	6.0	26
32	Mechanistic insight into bacterial entrapment by septin cage reconstitution. <i>Nature Communications</i> , 2021, 12, 4511.	12.8	24
33	Identification and structure of an extracellular contractile injection system from the marine bacterium <i>Algoriphagus machipongonensis</i> . <i>Nature Microbiology</i> , 2022, 7, 397-410.	13.3	24
34	Structure of a thylakoid-anchored contractile injection system in multicellular cyanobacteria. <i>Nature Microbiology</i> , 2022, 7, 386-396.	13.3	23
35	Bidirectional contraction of a type six secretion system. <i>Nature Communications</i> , 2019, 10, 1565.	12.8	19
36	Cryo-Electron Tomography Reveals the Complex Ultrastructural Organization of Multicellular Filamentous Chloroflexota (Chloroflexi) Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 1373.	3.5	16

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37	Structural Determinants and Their Role in Cyanobacterial Morphogenesis. <i>Life</i> , 2020, 10, 355.	2.4	15
38	CryoEM of bacterial secretion systems. <i>Current Opinion in Structural Biology</i> , 2018, 52, 64-70.	5.7	11
39	The Polar <i>Legionella</i> Icm/Dot T4SS Establishes Distinct Contact Sites with the Pathogen Vacuole Membrane. <i>MBio</i> , 2021, 12, e0218021.	4.1	10
40	Multiscale models of bacterial cell-cell interactions. <i>Microscopy and Microanalysis</i> , 2021, 27, 2564-2564.	0.4	0