Martin Pilhofer

List of Publications by Year
in descending order

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	Cultivation of a vampire: â€˜Candidatus Absconditicoccus praedatorâ€™. Environmental Microbiology, 2022, 24, 30-49.	3.8	30
2	Structure of a thylakoid-anchored contractile injection system in multicellular cyanobacteria. Nature Microbiology, 2022, 7, 386-396.	13.3	23
3	Identification and structure of an extracellular contractile injection system from the marine bacterium Algoriphagus machipongonensis. Nature Microbiology, 2022, 7, 397-410.	13.3	24
4	Mechanistic insight into bacterial entrapment by septin cage reconstitution. Nature Communications, 2021, 12, 4511.	12.8	24
5	Multiscale models of bacterial cell-cell interactions. Microscopy and Microanalysis, 2021, 27, 2564-2564.	0.4	0
6	The Polar Legionella Icm/Dot T4SS Establishes Distinct Contact Sites with the Pathogen Vacuole Membrane. MBio, 2021, 12, e0218021.	4.1	10
7	Effector loading onto the VgrG carrier activates type <scp>VI</scp> secretion system assembly. EMBO Reports, 2020, 21, e47961.	4.5	47
8	Structural Determinants and Their Role in Cyanobacterial Morphogenesis. Life, 2020, 10, 355.	2.4	15
9	Salmonella Typhimurium discreet-invasion of the murine gut absorptive epithelium. PLoS Pathogens, 2020, 16, e1008503.	4.7	37
10	Cryo-Electron Tomography Reveals the Complex Ultrastructural Organization of Multicellular Filamentous Chloroflexota (Chloroflexi) Bacteria. Frontiers in Microbiology, 2020, 11, 1373.	3.5	16
11	Architecture and function of human uromodulin filaments in urinary tract infections. Science, 2020, 369, 1005-1010.	12.6	81
12	Intestinal epithelial NAIP/NLRC4 restricts systemic dissemination of the adapted pathogen Salmonella Typhimurium due to site-specific bacterial PAMP expression. Mucosal Immunology, 2020, 13, 530-544.	6.0	94
13	Fully automated, sequential focused ion beam milling for cryo-electron tomography. ELife, 2020, 9, .	6.0	78
14	The cryo-EM structure of the human uromodulin filament core reveals a unique assembly mechanism. ELife, 2020, 9, .	6.0	26
15	Improved applicability and robustness of fast cryo-electron tomography data acquisition. Journal of Structural Biology, 2019, 208, 107-114.	2.8	70
16	A Bacterial Phage Tail-like Structure Kills Eukaryotic Cells by Injecting a Nuclease Effector. Cell Reports, 2019, 28, 295-301.e4.	6.4	39
17	Structure and Function of a Bacterial Gap Junction Analog. Cell, 2019, 178, 374-384.e15.	28.9	78
18	In situ and highâ€resolution cryoâ€•<scp>EM</scp> structure of a bacterial type <scp>VI</scp> secretion system membrane complex. EMBO Journal, 2019, 38, .	7.8	72

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19	Bidirectional contraction of a type six secretion system. Nature Communications, 2019, 10, 1565.	12.8	19
20	A contractile injection system stimulates tubeworm metamorphosis by translocating a proteinaceous effector. ELife, 2019, 8, .	6.0	52
21	Robust workflow and instrumentation for cryo-focused ion beam milling of samples for electron cryotomography. Ultramicroscopy, 2018, 190, 1-11.	1.9	68
22	Imaging bacteria inside their host by cryo-focused ion beam milling and electron cryotomography. Current Opinion in Microbiology, 2018, 43, 62-68.	5.1	30
23	CryoEM of bacterial secretion systems. Current Opinion in Structural Biology, 2018, 52, 64-70.	5.7	11
24	The in situ structures of mono-, di-, and trinucleosomes in human heterochromatin. Molecular Biology of the Cell, 2018, 29, 2450-2457.	2.1	73
25	Prophage-triggered membrane vesicle formation through peptidoglycan damage in Bacillus subtilis. Nature Communications, 2017, 8, 481.	12.8	224
26	In situ architecture, function, and evolution of a contractile injection system. Science, 2017, 357, 713-717.	12.6	123
27	In Situ Imaging of Bacterial Secretion Systems by Electron Cryotomography. Methods in Molecular Biology, 2017, 1615, 353-375.	0.9	32
28	Stepwise metamorphosis of the tubeworm Hydroides elegans is mediated by a bacterial inducer and MAPK signaling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10097-10102.	7.1	63
29	Tunable Single-Cell Extraction for Molecular Analyses. Cell, 2016, 166, 506-516.	28.9	155
30	Architecture and host interface of environmental chlamydiae revealed by electron cryotomography. Environmental Microbiology, 2014, 16, 417-429.	3.8	38
31	Marine Tubeworm Metamorphosis Induced by Arrays of Bacterial Phage Tailâ€“Like Structures. Science, 2014, 343, 529-533.	12.6	223
32	The bacterial cytoskeleton: more than twisted filaments. Current Opinion in Cell Biology, 2013, 25, 125-133.	5.4	52
33	Long helical filaments are not seen encircling cells in electron cryotomograms of rod-shaped bacteria. Biochemical and Biophysical Research Communications, 2011, 407, 650-655.	2.1	75
34	Microtubules in Bacteria: Ancient Tubulins Build a Five-Protofilament Homolog of the Eukaryotic Cytoskeleton. PLoS Biology, 2011, 9, e1001213.	5.6	108
35	Bacterial TEM. Methods in Cell Biology, 2010, 96, 21-45.	1.1	89
36	The diversity of fungi in aerobic sewage granules assessed by 18S rRNA gene and ITS sequence analyses. FEMS Microbiology Ecology, 2009, 68, 246-254.	2.7	41

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37	Optimization of three FISH procedures for in situ detection of anaerobic ammonium oxidizing bacteria in biological wastewater treatment. Journal of Microbiological Methods, 2009, 78, 119-126.	1.6	41
38	Characterization and Evolution of Cell Division and Cell Wall Synthesis Genes in the Bacterial Phyla Verrucomicrobia , Lentisphaerae , Chlamydiae , and Planctomycetes and Phylogenetic Comparison with rRNA Genes. Journal of Bacteriology, 2008, 190, 3192-3202.	2.2	133
39	Coexistence of Tubulins and ftsZ in Different Prosthecobacter Species. Molecular Biology and Evolution, 2007, 24, 1439-1442.	8.9	52
40	Characterization of bacterial operons consisting of two tubulins and a kinesin-like gene by the novel Two-Step Gene Walking method. Nucleic Acids Research, 2007, 35, e135-e135.	14.5	65