

Manfred Auer

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,579
citations

471509

17
h-index

330143

37
g-index

49
all docs

49
docs citations

49
times ranked

2663
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of <i>Cellulose Synthase-Like F6</i> Function Affects Mixed-Linkage Glucan Deposition, Cell Wall Mechanical Properties, and Defense Responses in Vegetative Tissues of Rice. <i>Plant Physiology</i> , 2012, 159, 56-69.	4.8	179
2	Molecular architecture of the chick vestibular hair bundle. <i>Nature Neuroscience</i> , 2013, 16, 365-374.	14.8	166
3	High-Pressure Freezing, Cellular Tomography, and Structural Cell Biology. <i>BioTechniques</i> , 2006, 41, 137-143.	1.8	142
4	Mammary collective cell migration involves transient loss of epithelial features and individual cell migration within the epithelium. <i>Journal of Cell Science</i> , 2012, 125, 2638-54.	2.0	132
5	Bacterial social networks: structure and composition of <i>Myxococcus xanthus</i> outer membrane vesicle chains. <i>Environmental Microbiology</i> , 2014, 16, 598-610.	3.8	122
6	The lethal cargo of <i>Myxococcus xanthus</i> outer membrane vesicles. <i>Frontiers in Microbiology</i> , 2014, 5, 474.	3.5	120
7	Three-Dimensional Macromolecular Organization of Cryofixed <i>Myxococcus xanthus</i> Biofilms as Revealed by Electron Microscopic Tomography. <i>Journal of Bacteriology</i> , 2009, 191, 2077-2082.	2.2	80
8	Temporal dynamics of fibrolytic and methanogenic rumen microorganisms during in situ incubation of switchgrass determined by 16S rRNA gene profiling. <i>Frontiers in Microbiology</i> , 2014, 5, 307.	3.5	78
9	Deep nuclear invaginations linked to cytoskeletal filaments: Integrated bioimaging of epithelial cells in 3D culture. <i>Journal of Cell Science</i> , 2017, 130, 177-189.	2.0	64
10	Regulation of Oxygenic Photosynthesis during Trophic Transitions in the Green Alga <i>Chromochloris zofingensis</i> . <i>Plant Cell</i> , 2019, 31, 579-601.	6.6	61
11	Volumetric feature extraction and visualization of tomographic molecular imaging. <i>Journal of Structural Biology</i> , 2003, 144, 132-143.	2.8	56
12	Exopolysaccharide microchannels direct bacterial motility and organize multicellular behavior. <i>ISME Journal</i> , 2016, 10, 2620-2632.	9.8	44
13	Outer Hair Cell Lateral Wall Structure Constrains the Mobility of Plasma Membrane Proteins. <i>PLoS Genetics</i> , 2015, 11, e1005500.	3.5	30
14	Three-dimensional Architecture of Hair-bundle Linkages Revealed by Electron-microscopic Tomography. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2008, 9, 215-224.	1.8	24
15	Electron Tomography of Cryo-Immobilized Plant Tissue: A Novel Approach to Studying 3D Macromolecular Architecture of Mature Plant Cell Walls In Situ. <i>PLoS ONE</i> , 2014, 9, e106928.	2.5	22
16	Non-invasive imaging of cellulose microfibril orientation within plant cell walls by polarized Raman microspectroscopy. <i>Biotechnology and Bioengineering</i> , 2016, 113, 82-90.	3.3	21
17	New insight into the role of MMP14 in metabolic balance. <i>PeerJ</i> , 2016, 4, e2142.	2.0	21
18	High pCO ₂ -induced exopolysaccharide-rich ballasted aggregates of planktonic cyanobacteria could explain Paleoproterozoic carbon burial. <i>Nature Communications</i> , 2018, 9, 2116.	12.8	19

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19	VEGFA165 gene therapy ameliorates blood-labyrinth barrier breakdown and hearing loss. JCI Insight, 2021, 6, .	5.0	19
20	Three-dimensional electron cryo-microscopy as a powerful structural tool in molecular medicine. Journal of Molecular Medicine, 2000, 78, 191-202.	3.9	17
21	Electron cryo-tomography of vestibular hair-cell stereocilia. Journal of Structural Biology, 2019, 206, 149-155.	2.8	16
22	Complete genome sequence of the chromate-reducing bacterium Thermoanaerobacter thermohydrosulfuricus strain BSB-33. Standards in Genomic Sciences, 2015, 10, 74.	1.5	15
23	Tracing Actin Filament Bundles in Three-Dimensional Electron Tomography Density Maps of Hair Cell Stereocilia. Molecules, 2018, 23, 882.	3.8	15
24	A cryo-tomography-based volumetric model of the actin core of mouse vestibular hair cell stereocilia lacking plastin 1. Journal of Structural Biology, 2020, 210, 107461.	2.8	14
25	Twist1-positive epithelial cells retain adhesive and proliferative capacity throughout dissemination. Biology Open, 2016, 5, 1216-1228.	1.2	12
26	Complete genome sequence of Pseudomonas stutzeri strain RCH2 isolated from a Hexavalent Chromium [Cr(VI)] contaminated site. Standards in Genomic Sciences, 2017, 12, 23.	1.5	12
27	Platelet-Derived Growth Factor Subunit B Signaling Promotes Pericyte Migration in Response to Loud Sound in the Cochlear Stria Vascularis. JARO - Journal of the Association for Research in Otolaryngology, 2018, 19, 363-379.	1.8	11
28	From Voxels to Knowledge: A Practical Guide to the Segmentation of Complex Electron Microscopy 3D-Data. Journal of Visualized Experiments, 2014, , e51673.	0.3	10
29	3D Ultrastructure of the Cochlear Outer Hair Cell Lateral Wall Revealed By Electron Tomography. Frontiers in Cellular Neuroscience, 2019, 13, 560.	3.7	10
30	Correction of Missing-Wedge Artifacts in Filamentous Tomograms by Template-Based Constrained Deconvolution. Journal of Chemical Information and Modeling, 2020, 60, 2626-2633.	5.4	9
31	Death and Transfiguration in Static Staphylococcus epidermidis Cultures. PLoS ONE, 2014, 9, e100002.	2.5	8
32	Exploring the role of CheA3 in Desulfovibrio vulgaris Hildenborough motility. Frontiers in Microbiology, 2014, 5, 77.	3.5	7
33	Mechanical Stress Analysis as a Method to Understand the Impact of Genetically Engineered Rice and Arabidopsis Plants. Industrial Biotechnology, 2012, 8, 238-244.	0.8	6
34	In-depth quantitative proteomic characterization of organotypic hippocampal slice culture reveals sex-specific differences in biochemical pathways. Scientific Reports, 2021, 11, 2560.	3.3	5
35	Outer Membrane Vesicles of Bacteria: Structure, Biogenesis, and Function. , 2019, , 593-607.		2
36	Outer Membrane Vesicles of Bacteria: Structure, Biogenesis, and Function. , 2017, , 1-15.		2

#	ARTICLE	IF	CITATIONS
37	Chemical profiling of the plant cellwall through Raman microspectroscopy. , 2010, , .		1
38	Organization of the Plant Cell Wall. , 2016, , 101-119.		1
39	Tracing Filaments in Simulated and Experimental 3D Cryo-Electron Tomography Maps Using a Fast Dynamic Programming Algorithm. Microscopy and Microanalysis, 2021, 27, 3236-3237.	0.4	1
40	A Pattern Recognition Tool for Medium-Resolution Cryo-EM Density Maps and Low-Resolution Cryo-ET Density Maps. Lecture Notes in Computer Science, 2018, , 233-238.	1.3	1
41	Biofilm Interaction Mapping and Analysis (BIMA) of Interspecific Interactions in Pseudomonas Co-culture Biofilms. Frontiers in Microbiology, 2021, 12, 757856.	3.5	1
42	Luminescent Ruthenium Complex Labels for Correlative Microscopy.. Microscopy and Microanalysis, 2017, 23, 1290-1291.	0.4	0
43	Cross-scale Integrated Biomaging by 3D Light-, X-ray and Electron Microscopy - From Organisms, Organs and Tissue to Cells, Organelles and Macromolecular Complexes. Microscopy and Microanalysis, 2017, 23, 338-338.	0.4	0
44	Ultrastructural cellular signatures: does cellular form follow function?. National Science Review, 2019, 6, 861-863.	9.5	0
45	Interpreting Cytoskeletal Filaments in Cryo-Electron Tomograms with Shape-Constrained Deconvolution. Microscopy and Microanalysis, 2021, 27, 72-73.	0.4	0