

Manfred Auer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4998307/publications.pdf>

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 | In-depth quantitative proteomic characterization of organotypic hippocampal slice culture reveals sex-specific differences in biochemical pathways. <i>Scientific Reports</i> , 2021, 11, 2560. | 3.3 | 5 |
| 2 | VEGFA165 gene therapy ameliorates blood-labyrinth barrier breakdown and hearing loss. <i>JCI Insight</i> , 2021, 6, . | 5.0 | 19 |
| 3 | Interpreting Cytoskeletal Filaments in Cryo-Electron Tomograms with Shape-Constrained Deconvolution. <i>Microscopy and Microanalysis</i> , 2021, 27, 72-73. | 0.4 | 0 |
| 4 | Tracing Filaments in Simulated and Experimental 3D Cryo-Electron Tomography Maps Using a Fast Dynamic Programming Algorithm. <i>Microscopy and Microanalysis</i> , 2021, 27, 3236-3237. | 0.4 | 1 |
| 5 | Biofilm Interaction Mapping and Analysis (BIMA) of Interspecific Interactions in <i>Pseudomonas</i> Co-culture Biofilms. <i>Frontiers in Microbiology</i> , 2021, 12, 757856. | 3.5 | 1 |
| 6 | Correction of Missing-Wedge Artifacts in Filamentous Tomograms by Template-Based Constrained Deconvolution. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2626-2633. | 5.4 | 9 |
| 7 | A cryo-tomography-based volumetric model of the actin core of mouse vestibular hair cell stereocilia lacking plastin 1. <i>Journal of Structural Biology</i> , 2020, 210, 107461. | 2.8 | 14 |
| 8 | Ultrastructural cellular signatures: does cellular form follow function?. <i>National Science Review</i> , 2019, 6, 861-863. | 9.5 | 0 |
| 9 | Outer Membrane Vesicles of Bacteria: Structure, Biogenesis, and Function. , 2019, , 593-607. | | 2 |
| 10 | Regulation of Oxygenic Photosynthesis during Trophic Transitions in the Green Alga <i>Chromochloris zofingiensis</i> . <i>Plant Cell</i> , 2019, 31, 579-601. | 6.6 | 61 |
| 11 | Electron cryo-tomography of vestibular hair-cell stereocilia. <i>Journal of Structural Biology</i> , 2019, 206, 149-155. | 2.8 | 16 |
| 12 | 3D Ultrastructure of the Cochlear Outer Hair Cell Lateral Wall Revealed By Electron Tomography. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 560. | 3.7 | 10 |
| 13 | 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 |
| 14 | Tracing Actin Filament Bundles in Three-Dimensional Electron Tomography Density Maps of Hair Cell Stereocilia. <i>Molecules</i> , 2018, 23, 882. | 3.8 | 15 |
| 15 | Platelet-Derived Growth Factor Subunit B Signaling Promotes Pericyte Migration in Response to Loud Sound in the Cochlear Stria Vascularis. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2018, 19, 363-379. | 1.8 | 11 |
| 16 | A Pattern Recognition Tool for Medium-Resolution Cryo-EM Density Maps and Low-Resolution Cryo-ET Density Maps. <i>Lecture Notes in Computer Science</i> , 2018, , 233-238. | 1.3 | 1 |
| 17 | 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 |
| 18 | Complete genome sequence of <i>Pseudomonas stutzeri</i> strain RCH2 isolated from a Hexavalent Chromium [Cr(VI)] contaminated site. <i>Standards in Genomic Sciences</i> , 2017, 12, 23. | 1.5 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Luminescent Ruthenium Complex Labels for Correlative Microscopy.. Microscopy and Microanalysis, 2017, 23, 1290-1291. | 0.4 | 0 |
| 20 | 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 |
| 21 | Outer Membrane Vesicles of Bacteria: Structure, Biogenesis, and Function. , 2017, , 1-15. | | 2 |
| 22 | Twist1-positive epithelial cells retain adhesive and proliferative capacity throughout dissemination. Biology Open, 2016, 5, 1216-1228. | 1.2 | 12 |
| 23 | Noninvasive imaging of cellulose microfibril orientation within plant cell walls by polarized Raman microspectroscopy. Biotechnology and Bioengineering, 2016, 113, 82-90. | 3.3 | 21 |
| 24 | Organization of the Plant Cell Wall. , 2016, , 101-119. | | 1 |
| 25 | Exopolysaccharide microchannels direct bacterial motility and organize multicellular behavior. ISME Journal, 2016, 10, 2620-2632. | 9.8 | 44 |
| 26 | New insight into the role of MMP14 in metabolic balance. PeerJ, 2016, 4, e2142. | 2.0 | 21 |
| 27 | Complete genome sequence of the chromate-reducing bacterium Thermoanaerobacter thermohydrosulfuricus strain BSB-33. Standards in Genomic Sciences, 2015, 10, 74. | 1.5 | 15 |
| 28 | Outer Hair Cell Lateral Wall Structure Constrains the Mobility of Plasma Membrane Proteins. PLoS Genetics, 2015, 11, e1005500. | 3.5 | 30 |
| 29 | Death and Transfiguration in Static Staphylococcus epidermidis Cultures. PLoS ONE, 2014, 9, e100002. | 2.5 | 8 |
| 30 | Electron Tomography of Cryo-Immobilized Plant Tissue: A Novel Approach to Studying 3D Macromolecular Architecture of Mature Plant Cell Walls In Situ. PLoS ONE, 2014, 9, e106928. | 2.5 | 22 |
| 31 | Exploring the role of CheA3 in Desulfovibrio vulgaris Hildenborough motility. Frontiers in Microbiology, 2014, 5, 77. | 3.5 | 7 |
| 32 | Temporal dynamics of fibrolytic and methanogenic rumen microorganisms during in situ incubation of switchgrass determined by 16S rRNA gene profiling. Frontiers in Microbiology, 2014, 5, 307. | 3.5 | 78 |
| 33 | Bacterial social networks: structure and composition of <i>Myxococcus xanthus</i> outer membrane vesicle chains. Environmental Microbiology, 2014, 16, 598-610. | 3.8 | 122 |
| 34 | The lethal cargo of Myxococcus xanthus outer membrane vesicles. Frontiers in Microbiology, 2014, 5, 474. | 3.5 | 120 |
| 35 | 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 |
| 36 | Molecular architecture of the chick vestibular hair bundle. Nature Neuroscience, 2013, 16, 365-374. | 14.8 | 166 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Mechanical Stress Analysis as a Method to Understand the Impact of Genetically Engineered Rice and Arabidopsis Plants. <i>Industrial Biotechnology</i> , 2012, 8, 238-244. | 0.8 | 6 |
| 40 | Chemical profiling of the plant cellwall through Raman microspectroscopy. , 2010, , . | | 1 |
| 41 | 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 |
| 42 | 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 |
| 43 | High-Pressure Freezing, Cellular Tomography, and Structural Cell Biology. <i>BioTechniques</i> , 2006, 41, 137-143. | 1.8 | 142 |
| 44 | Volumetric feature extraction and visualization of tomographic molecular imaging. <i>Journal of Structural Biology</i> , 2003, 144, 132-143. | 2.8 | 56 |
| 45 | Three-dimensional electron cryo-microscopy as a powerful structural tool in molecular medicine. <i>Journal of Molecular Medicine</i> , 2000, 78, 191-202. | 3.9 | 17 |