

Tanmay A M Bharat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2475096/publications.pdf>

Version: 2024-02-01

37
papers

2,471
citations

279487

23
h-index

360668

35
g-index

44
all docs

44
docs citations

44
times ranked

3313
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Architecture of the ring formed by the tubulin homologue FtsZ in bacterial cell division. <i>ELife</i> , 2014, 3, e04601. | 2.8 | 218 |
| 2 | Resolving macromolecular structures from electron cryo-tomography data using subtomogram averaging in RELION. <i>Nature Protocols</i> , 2016, 11, 2054-2065. | 5.5 | 216 |
| 3 | Structural dissection of Ebola virus and its assembly determinants using cryo-electron tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4275-4280. | 3.3 | 210 |
| 4 | Advances in Single-Particle Electron Cryomicroscopy Structure Determination applied to Sub-tomogram Averaging. <i>Structure</i> , 2015, 23, 1743-1753. | 1.6 | 189 |
| 5 | Structure of the immature retroviral capsid at 8Å resolution by cryo-electron microscopy. <i>Nature</i> , 2012, 487, 385-389. | 13.7 | 152 |
| 6 | Cryo-Electron Tomography of Marburg Virus Particles and Their Morphogenesis within Infected Cells. <i>PLoS Biology</i> , 2011, 9, e1001196. | 2.6 | 125 |
| 7 | Cryo-electron microscopy of tubular arrays of HIV-1 Gag resolves structures essential for immature virus assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8233-8238. | 3.3 | 98 |
| 8 | Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P ₂)-dependent Oligomerization of Fibroblast Growth Factor 2 (FGF2) Triggers the Formation of a Lipidic Membrane Pore Implicated in Unconventional Secretion. <i>Journal of Biological Chemistry</i> , 2012, 287, 27659-27669. | 1.6 | 96 |
| 9 | Design of a molecular support for cryo-EM structure determination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7456-E7463. | 3.3 | 93 |
| 10 | Complexin arrests a pool of docked vesicles for fast Ca ²⁺ -dependent release. <i>EMBO Journal</i> , 2012, 31, 3270-3281. | 3.5 | 85 |
| 11 | Structure of the hexagonal surface layer on <i>Caulobacter crescentus</i> cells. <i>Nature Microbiology</i> , 2017, 2, 17059. | 5.9 | 85 |
| 12 | Seeing tobacco mosaic virus through direct electron detectors. <i>Journal of Structural Biology</i> , 2015, 189, 87-97. | 1.3 | 82 |
| 13 | Phage liquid crystalline droplets form occlusive sheaths that encapsulate and protect infectious rod-shaped bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4724-4731. | 3.3 | 80 |
| 14 | In Situ Structure of an Intact Lipopolysaccharide-Bound Bacterial Surface Layer. <i>Cell</i> , 2020, 180, 348-358.e15. | 13.5 | 79 |
| 15 | Structures of actin-like ParM filaments show architecture of plasmid-segregating spindles. <i>Nature</i> , 2015, 523, 106-110. | 13.7 | 73 |
| 16 | Tricalbins Contribute to Cellular Lipid Flux and Form Curved ER-PM Contacts that Are Bridged by Rod-Shaped Structures. <i>Developmental Cell</i> , 2019, 51, 488-502.e8. | 3.1 | 72 |
| 17 | A 7±-barrel built by the combination of fragments from different folds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9942-9947. | 3.3 | 61 |
| 18 | <sc>SNARE</sc> and regulatory proteins induce local membrane protrusions to prime docked vesicles for fast calcium-triggered fusion. <i>EMBO Reports</i> , 2014, 15, 308-314. | 2.0 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Cryo-tomography tilt-series alignment with consideration of the beam-induced sample motion. <i>Journal of Structural Biology</i> , 2018, 202, 200-209. | 1.3 | 43 |
| 20 | Correlative Microscopy of Vitreous Sections Provides Insights into BAR-Domain Organization In Situ. <i>Structure</i> , 2018, 26, 879-886.e3. | 1.6 | 43 |
| 21 | Molecular Logic of Prokaryotic Surface Layer Structures. <i>Trends in Microbiology</i> , 2021, 29, 405-415. | 3.5 | 40 |
| 22 | The use of sonicated lipid vesicles for mass spectrometry of membrane protein complexes. <i>Nature Protocols</i> , 2020, 15, 1690-1706. | 5.5 | 30 |
| 23 | Towards high-throughput in situ structural biology using electron cryotomography. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 160, 97-103. | 1.4 | 30 |
| 24 | Four-stranded mini microtubules formed by <i>Prostheco bacter</i> BtubAB show dynamic instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5950-E5958. | 3.3 | 26 |
| 25 | Identifying proteins bound to native mitotic ESC chromosomes reveals chromatin repressors are important for compaction. <i>Nature Communications</i> , 2020, 11, 4118. | 5.8 | 26 |
| 26 | The HIV Mutation Browser: A Resource for Human Immunodeficiency Virus Mutagenesis and Polymorphism Data. <i>PLoS Computational Biology</i> , 2014, 10, e1003951. | 1.5 | 25 |
| 27 | Architecture of cell-cell junctions in situ reveals a mechanism for bacterial biofilm inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 22 |
| 28 | Complete atomic structure of a native archaeal cell surface. <i>Cell Reports</i> , 2021, 37, 110052. | 2.9 | 22 |
| 29 | Locating macromolecules and determining structures inside bacterial cells using electron cryotomography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 973-981. | 1.1 | 15 |
| 30 | A Multiprotein Complex Anchors Adhesive Holdfast at the Outer Membrane of <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2019, 201, . | 1.0 | 13 |
| 31 | High-resolution mapping of metal ions reveals principles of surface layer assembly in <i>Caulobacter crescentus</i> cells. <i>Structure</i> , 2022, 30, 215-228.e5. | 1.6 | 12 |
| 32 | The importance of biofilm formation for cultivation of a <i>Micrarchaeon</i> and its interactions with its <i>Thermoplasmatales</i> host. <i>Nature Communications</i> , 2022, 13, 1735. | 5.8 | 12 |
| 33 | Variable Internal Flexibility Characterizes the Helical Capsid Formed by <i>Agrobacterium</i> VirE2 Protein on Single-Stranded DNA. <i>Structure</i> , 2013, 21, 1158-1167. | 1.6 | 8 |
| 34 | Compressed sensing for electron cryotomography and high-resolution subtomogram averaging of biological specimens. <i>Structure</i> , 2022, 30, 408-417.e4. | 1.6 | 6 |
| 35 | Illuminating the dynamics of biofilms. <i>Nature Reviews Microbiology</i> , 2020, 18, 544-544. | 13.6 | 3 |
| 36 | Ultrastable Gold Substrates Improve the Resolution of 3D Reconstructed Density Maps from Electron Micrographs and Tomograms. <i>Microscopy and Microanalysis</i> , 2016, 22, 1148-1149. | 0.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Impressions of expression: bringing structure to the cell. Nature Reviews Microbiology, 2021, 19, 346-346. | 13.6 | 0 |