

Roberto A Steiner

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

10,259
citations

279798

23
h-index

276875

41
g-index

46
all docs

46
docs citations

46
times ranked

17845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | <i>REFMAC</i>5 for the refinement of macromolecular crystal structures. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 355-367. | 2.5 | 7,247 |
| 2 | <i>REFMAC</i>5 dictionary: organization of prior chemical knowledge and guidelines for its use. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2184-2195. | 2.5 | 1,207 |
| 3 | Crystal Structure of the Copper-Containing Quercetin 2,3-Dioxygenase from Aspergillus japonicus. Structure, 2002, 10, 259-268. | 3.3 | 216 |
| 4 | Anaerobic enzyme*substrate structures provide insight into the reaction mechanism of the copper-dependent quercetin 2,3-dioxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16625-16630. | 7.1 | 170 |
| 5 | Cofactor-independent oxidases and oxygenases. Applied Microbiology and Biotechnology, 2010, 86, 791-804. | 3.6 | 122 |
| 6 | The Dynamic Localization of Cytoplasmic Dynein in Neurons Is Driven by Kinesin-1. Neuron, 2016, 90, 1000-1015. | 8.1 | 95 |
| 7 | Structural and functional studies on the extracellular domain of BST2/tetherin in reduced and oxidized conformations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17951-17956. | 7.1 | 92 |
| 8 | Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates <sc>eIF</sc>2Î±-mediated stress signaling. EMBO Journal, 2016, 35, 319-334. | 7.8 | 91 |
| 9 | EPR characterization of the mononuclear Cu-containing Aspergillus japonicus quercetin 2,3-dioxygenase reveals dramatic changes upon anaerobic binding of substrates. FEBS Journal, 2002, 269, 2971-2979. | 0.2 | 87 |
| 10 | Structural Basis for Kinesin-1:Cargo Recognition. Science, 2013, 340, 356-359. | 12.6 | 85 |
| 11 | Structural basis for cofactor-independent dioxygenation of <i>N</i>-heteroaromatic compounds at the Î±/Î²-hydrolase fold. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 657-662. | 7.1 | 77 |
| 12 | Functional Analysis of the Copper-Dependent Quercetin 2,3-Dioxygenase. 1. Ligand-Induced Coordination Changes Probed by X-ray Crystallography: A Inhibition, Ordering Effect, and Mechanistic Insights. Biochemistry, 2002, 41, 7955-7962. | 2.5 | 73 |
| 13 | Catalytic Mechanism of Cofactor-Free Dioxygenases and How They Circumvent Spin-Forbidden Oxygenation of Their Substrates. Journal of the American Chemical Society, 2015, 137, 7474-7487. | 13.7 | 70 |
| 14 | Structural insight into M-band assembly and mechanics from the titin-obscurin-like-1 complex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2908-2913. | 7.1 | 60 |
| 15 | Fisher's information in maximum-likelihood macromolecular crystallographic refinement. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2114-2124. | 2.5 | 57 |
| 16 | A small-molecule activator of kinesin-1 drives remodeling of the microtubule network. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13738-13743. | 7.1 | 57 |
| 17 | The light chains of kinesin-1 are autoinhibited. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2418-2423. | 7.1 | 50 |
| 18 | Direct Evidence for a Peroxide Intermediate and a Reactive Enzyme*Substrate* Dioxxygen Configuration in a Cofactor-free Oxidase. Angewandte Chemie - International Edition, 2014, 53, 13710-13714. | 13.8 | 43 |

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|----|--|-----|-----------|
| 19 | Functional Analysis of the Copper-Dependent Quercetin 2,3-Dioxygenase. 2. X-ray Absorption Studies of Native Enzyme and Anaerobic Complexes with the Substrates Quercetin and Myricetin. <i>Biochemistry</i> , 2002, 41, 7963-7968. | 2.5 | 37 |
| 20 | Origin of the Proton-transfer Step in the Cofactor-free (1H)-3-Hydroxy-4-oxoquinaldine 2,4-Dioxygenase. <i>Journal of Biological Chemistry</i> , 2014, 289, 8620-8632. | 3.4 | 31 |
| 21 | New insight into cofactor-free oxygenation from combined experimental and computational approaches. <i>Current Opinion in Structural Biology</i> , 2016, 41, 109-118. | 5.7 | 31 |
| 22 | X-ray structure of bovine pancreatic phospholipase A2 at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 516-526. | 2.5 | 26 |
| 23 | Structural basis for isoform-specific kinesin-1 recognition of Y-acidic cargo adaptors. <i>ELife</i> , 2018, 7, . | 6.0 | 26 |
| 24 | SKIP controls lysosome positioning using a composite kinesin-1 heavy and light chain binding domain. <i>Journal of Cell Science</i> , 2017, 130, 1637-1651. | 2.0 | 25 |
| 25 | Binding of Myomesin to Obscurin-Like-1 at the Muscle M-Band Provides a Strategy for Isoform-Specific Mechanical Protection. <i>Structure</i> , 2017, 25, 107-120. | 3.3 | 25 |
| 26 | The Crystal Structure of the Human Titin:Obscurin Complex Reveals a Conserved yet Specific Muscle M-Band Zipper Module. <i>Journal of Molecular Biology</i> , 2015, 427, 718-736. | 4.2 | 20 |
| 27 | Keep it together: restraints in crystallographic refinement of macromolecule-ligand complexes. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 93-102. | 2.3 | 19 |
| 28 | 1,3-dipolar cycloaddition of phenyl azide to norbornene in aqueous solutions. <i>Tetrahedron Letters</i> , 1995, 36, 5389-5392. | 1.4 | 15 |
| 29 | DNA variability in five crystal structures of d(CGCAATTGCG). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 680-685. | 2.5 | 14 |
| 30 | The Cannabinoid Receptor Interacting Proteins 1 of zebrafish are not required for morphological development, viability or fertility. <i>Scientific Reports</i> , 2017, 7, 4858. | 3.3 | 14 |
| 31 | Coagulation Factor XIII-A Subunit Missense Mutation in the Pathobiology of Autosomal Dominant Multiple Dermatofibromas. <i>Journal of Investigative Dermatology</i> , 2020, 140, 624-635.e7. | 0.7 | 12 |
| 32 | Variable role of ions in two drug intercalation complexes of DNA. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 476-482. | 2.6 | 10 |
| 33 | Crystallization and preliminary X-ray analysis of 1H-3-hydroxy-4-oxoquinaldine 2,4-dioxygenase from <i>Arthrobacter nitroguajacolicus</i> RÅ1/461a: a cofactor-devoid dioxygenase of the $\hat{1}\pm/1^2$ -hydrolase-fold superfamily. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 382-385. | 0.7 | 9 |
| 34 | Single-Crystal EPR Study at 95GHz of the Type 2 Copper Site of the Inhibitor-Bound Quercetin 2,3-Dioxygenase. <i>Biophysical Journal</i> , 2003, 85, 4047-4054. | 0.5 | 8 |
| 35 | Fragment-linking peptide design yields a high-affinity ligand for microtubule-based transport. <i>Cell Chemical Biology</i> , 2021, 28, 1347-1355.e5. | 5.2 | 7 |
| 36 | Joint neutron/X-ray crystal structure of a mechanistically relevant complex of perdeuterated urate oxidase and simulations provide insight into the hydration step of catalysis. <i>IUCr</i> , 2021, 8, 46-59. | 2.2 | 6 |

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|----|--|------|-----------|
| 37 | Molecular mechanism for kinesin-1 direct membrane recognition. <i>Science Advances</i> , 2021, 7, . | 10.3 | 5 |
| 38 | Integrins Coordinate Epithelial Cell Migration Through Local Suppression of MAP Kinase Signaling Pathways. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 750771. | 3.7 | 5 |
| 39 | Online Raman spectroscopy for structural biology on beamline ID29 of the ESRF. <i>Journal of Structural Biology</i> , 2017, 200, 124-127. | 2.8 | 4 |
| 40 | Model building, refinement and validation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 325-327. | 2.5 | 1 |