

Kunchithapadam Swaminathan

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,449
citations

236612

25
h-index

205818

48
g-index

57
all docs

57
docs citations

57
times ranked

4476
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Structural and functional analyses of the PPlase domain of <i>Arabidopsis thaliana</i> CYP71 reveal its catalytic activity toward histone H3. <i>FEBS Letters</i> , 2021, 595, 145-154. | 1.3 | 4 |
| 2 | Molecular modeling and interaction between <i>Arabidopsis</i> sulfite oxidase and the GW motif of Turnip crinkle virus coat protein. <i>Virology</i> , 2020, 551, 64-74. | 1.1 | 2 |
| 3 | A feedforward relationship between active Rac1 and phosphorylated Bcl-2 is critical for sustaining Bcl-2 phosphorylation and promoting cancer progression. <i>Cancer Letters</i> , 2019, 457, 151-167. | 3.2 | 20 |
| 4 | Engineering of serine protease for improved thermostability and catalytic activity using rational design. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 229-237. | 3.6 | 47 |
| 5 | A Heparan Sulfate Device for the Regeneration of Osteochondral Defects. <i>Tissue Engineering - Part A</i> , 2019, 25, 352-363. | 1.6 | 15 |
| 6 | Tilapia and human CLIC2 structures are highly conserved. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 1752-1757. | 1.0 | 4 |
| 7 | Proteobacterial Origin of Protein Arginine Methylation and Regulation of Complex I Assembly by MidA. <i>Cell Reports</i> , 2018, 24, 1996-2004. | 2.9 | 10 |
| 8 | Affinity Selection of FGF2-Binding Heparan Sulfates for Ex Vivo Expansion of Human Mesenchymal Stem Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 566-575. | 2.0 | 27 |
| 9 | Mechanisms of <i>Yersinia</i> YopO kinase substrate specificity. <i>Scientific Reports</i> , 2017, 7, 39998. | 1.6 | 10 |
| 10 | Avathrin: a novel thrombin inhibitor derived from a multicopy precursor in the salivary glands of the ixodid tick, <i>Amblyomma variegatum</i> . <i>FASEB Journal</i> , 2017, 31, 2981-2995. | 0.2 | 14 |
| 11 | <i>Yersinia</i> effector protein (YopO)-mediated phosphorylation of host gelsolin causes calcium-independent activation leading to disruption of actin dynamics. <i>Journal of Biological Chemistry</i> , 2017, 292, 8092-8100. | 1.6 | 13 |
| 12 | Functional characterization of selective exosite-binding inhibitors of matrix metalloproteinase-13 (MMP-13) – experimental validation in human breast and colon cancer. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2122-2131. | 0.6 | 7 |
| 13 | A C9ORF72/SMCR8-containing complex regulates ULK1 and plays a dual role in autophagy. <i>Science Advances</i> , 2016, 2, e1601167. | 4.7 | 210 |
| 14 | Molecular basis for specific viral RNA recognition and 2'-O-ribose methylation by the dengue virus nonstructural protein 5 (NS5). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14834-14839. | 3.3 | 89 |
| 15 | Structural determinants of heparin-transforming growth factor- β 1 interactions and their effects on signaling. <i>Glycobiology</i> , 2015, 25, 1491-1504. | 1.3 | 38 |
| 16 | Discovery of <i>Mycobacterium tuberculosis</i> β -1,4-Glucan Branching Enzyme (GlgB) Inhibitors by Structure- and Ligand-based Virtual Screening. <i>Journal of Biological Chemistry</i> , 2015, 290, 76-89. | 1.6 | 18 |
| 17 | A Crystal Structure of the Dengue Virus NS5 Protein Reveals a Novel Inter-domain Interface Essential for Protein Flexibility and Virus Replication. <i>PLoS Pathogens</i> , 2015, 11, e1004682. | 2.1 | 180 |
| 18 | Plant immunophilins: a review of their structure-function relationship. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2145-2158. | 1.1 | 38 |

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|----|--|------|-----------|
| 19 | Flexibility of NS5 Methyltransferase-Polymerase Linker Region Is Essential for Dengue Virus Replication. <i>Journal of Virology</i> , 2015, 89, 10717-10721. | 1.5 | 41 |
| 20 | Investigating the Molecular Basis of Siah1 and Siah2 E3 Ubiquitin Ligase Substrate Specificity. <i>PLoS ONE</i> , 2014, 9, e106547. | 1.1 | 17 |
| 21 | Structure of a Diguanylate Cyclase from <i>Thermotoga maritima</i> : Insights into Activation, Feedback Inhibition and Thermostability. <i>PLoS ONE</i> , 2014, 9, e110912. | 1.1 | 22 |
| 22 | Hibiscus Chlorotic Ringspot Virus Coat Protein Is Essential for Cell-to-Cell and Long-Distance Movement but Not for Viral RNA Replication. <i>PLoS ONE</i> , 2014, 9, e113347. | 1.1 | 11 |
| 23 | H ₂ O ₂ Inhibits ABA-Signaling Protein Phosphatase HAB1. <i>PLoS ONE</i> , 2014, 9, e113643. | 1.1 | 25 |
| 24 | Identification and molecular characterization of human antibody fragments specific for dengue NS5 protein. <i>Virus Research</i> , 2014, 179, 225-230. | 1.1 | 21 |
| 25 | α-Glucan Pathway as a Novel Mtb Drug Target: Structural Insights and Cues for Polypharmacological Targeting of GlgB and GlgE. <i>Current Medicinal Chemistry</i> , 2014, 21, 4074-4084. | 1.2 | 3 |
| 26 | Structural and Functional Studies of trans-Encoded HLA-DQ2.3 (DQA1*03:01/DQB1*02:01) Protein Molecule. <i>Journal of Biological Chemistry</i> , 2012, 287, 13611-13619. | 1.6 | 63 |
| 27 | Crystal Structure of <i>Arabidopsis</i> Cyclophilin38 Reveals a Previously Uncharacterized Immunophilin Fold and a Possible Autoinhibitory Mechanism. <i>Plant Cell</i> , 2012, 24, 2666-2674. | 3.1 | 42 |
| 28 | Enzymatic catalysis of anti-Baldwin ring closure in polyether biosynthesis. <i>Nature</i> , 2012, 483, 355-358. | 18.7 | 117 |
| 29 | Crystal structure of mouse RhoA:GTPÎ³S complex in a centered lattice. <i>Journal of Structural and Functional Genomics</i> , 2012, 13, 241-245. | 1.2 | 7 |
| 30 | Validation of Drug-Like Inhibitors against Mycobacterium Tuberculosis L-Aspartate Î±-Decarboxylase Using Nuclear Magnetic Resonance (1H NMR). <i>PLoS ONE</i> , 2012, 7, e45947. | 1.1 | 10 |
| 31 | Interaction of Mycobacterium tuberculosis RshA and SigH Is Mediated by Salt Bridges. <i>PLoS ONE</i> , 2012, 7, e43676. | 1.1 | 14 |
| 32 | Frequency distribution of the reduced unit cells of centred lattices from the Protein Data Bank. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 295-297. | 0.3 | 1 |
| 33 | Chemoinformatic Identification of Novel Inhibitors against Mycobacterium tuberculosis L-aspartate Î±-decarboxylase. <i>PLoS ONE</i> , 2012, 7, e33521. | 1.1 | 15 |
| 34 | Structure of Hibiscus Latent Singapore Virus by Fiber Diffraction: A Nonconserved His122 Contributes to Coat Protein Stability. <i>Journal of Molecular Biology</i> , 2011, 406, 516-526. | 2.0 | 8 |
| 35 | Crystal Structure of Thrombin in Complex with S-Variagin: Insights of a Novel Mechanism of Inhibition and Design of Tunable Thrombin Inhibitors. <i>PLoS ONE</i> , 2011, 6, e26367. | 1.1 | 40 |
| 36 | Crystal Structure of the PAC1R Extracellular Domain Unifies a Consensus Fold for Hormone Recognition by Class B G-Protein Coupled Receptors. <i>PLoS ONE</i> , 2011, 6, e19682. | 1.1 | 58 |

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|----|---|-----|-----------|
| 37 | Structural Basis for Hormone Recognition by the Human CRFR2 \pm G Protein-coupled Receptor. Journal of Biological Chemistry, 2010, 285, 40351-40361. | 1.6 | 73 |
| 38 | Crystal Structure of Full-length Mycobacterium tuberculosis H37Rv Glycogen Branching Enzyme. Journal of Biological Chemistry, 2010, 285, 20897-20903. | 1.6 | 67 |
| 39 | Modifying the Substrate Specificity of Carcinoscopus rotundicauda Serine Protease Inhibitor Domain 1 to Target Thrombin. PLoS ONE, 2010, 5, e15258. | 1.1 | 6 |
| 40 | Lack of TNF \pm expression protects anaplastic lymphoma kinase-positive T-cell lymphoma (ALK+ TCL) cells from apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15843-15848. | 3.3 | 19 |
| 41 | Structural basis of typhoid: <i>Salmonella typhi</i> type IVb pilin (PilS) and cystic fibrosis transmembrane conductance regulator interaction. Proteins: Structure, Function and Bioinformatics, 2009, 77, 253-261. | 1.5 | 284 |
| 42 | Crystal Structure of the Polyextremophilic \pm -Amylase AmyB from Halothermothrix orenii: Details of a Productive Enzyme-Substrate Complex and an N Domain with a Role in Binding Raw Starch. Journal of Molecular Biology, 2008, 378, 852-870. | 2.0 | 80 |
| 43 | Structural and pharmacological comparison of daboiatoxin from <i>Daboia russelli siamensis</i> with viperotoxin F and vipoxin from other vipers. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 722-729. | 2.5 | 13 |
| 44 | Crystal structure of AmyA lacks acidic surface and provide insights into protein stability at poly-extreme condition. FEBS Letters, 2006, 580, 2646-2652. | 1.3 | 64 |
| 45 | Structural comparison of oxidized and reduced FKBP13 from Arabidopsis thaliana. Proteins: Structure, Function and Bioinformatics, 2006, 65, 789-795. | 1.5 | 20 |
| 46 | Crystal structure of uncleaved L-aspartate- \pm -decarboxylase from Mycobacterium tuberculosis. Proteins: Structure, Function and Bioinformatics, 2006, 65, 796-802. | 1.5 | 34 |
| 47 | Structure and function comparison of Micropechis ikaheka snake venom phospholipase A2 isoenzymes. FEBS Journal, 2005, 272, 1211-1220. | 2.2 | 14 |
| 48 | Structural analysis uncovers a role for redox in regulating FKBP13, an immunophilin of the chloroplast thylakoid lumen. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13945-13950. | 3.3 | 97 |
| 49 | A Dimerized Coiled-Coil Domain and an Adjoining Part of Geminin Interact with Two Sites on Cdt1 for Replication Inhibition. Molecular Cell, 2004, 15, 245-258. | 4.5 | 73 |
| 50 | Expression, crystallization and preliminary X-ray analysis of isomaltulose synthase (Pall) from <i>Klebsiella</i> sp. LX3. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 150-151. | 2.5 | 4 |
| 51 | Crystallization of a novel \pm -amylase, AmyB, from the thermophilic halophile <i>Halothermothrix orenii</i> . Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2257-2258. | 2.5 | 8 |
| 52 | A HEX-1 crystal lattice required for Woronin body function in <i>Neurospora crassa</i> . Nature Structural and Molecular Biology, 2003, 10, 264-270. | 3.6 | 77 |
| 53 | A motif rich in charged residues determines product specificity in isomaltulose synthase. FEBS Letters, 2003, 534, 151-155. | 1.3 | 23 |
| 54 | Isomaltulose Synthase (Pall) of <i>Klebsiella</i> sp. LX3. Journal of Biological Chemistry, 2003, 278, 35428-35434. | 1.6 | 56 |

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| 55 | Crystallization of an Î±-amylase, AmyA, from the thermophilic halophile <i>Halothermothrix orenii</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2125-2126. | 2.5 | 9 |
| 56 | Crystal structure of the CDK4/6 inhibitory protein p18INK4c provides insights into ankyrin-like repeat structure/function and tumor-derived p16INK4 mutations. <i>Nature Structural Biology</i> , 1998, 5, 74-81. | 9.7 | 80 |
| 57 | Crystal structure of a P130Cas-DNA complex reveals a novel mechanism for DNA recognition by a protein containing a Zn ₂ Cys ₆ binuclear cluster. <i>Nature Structural Biology</i> , 1997, 4, 751-759. | 9.7 | 87 |