

Manickam Yogavel

List of Publications by Year in descending order

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74
papers

1,484
citations

394286

19
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345118

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75
docs citations

75
times ranked

1737
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#	ARTICLE	IF	CITATIONS
1	A <i>Toxoplasma</i> dense granule protein, GRA24, modulates the early immune response to infection by promoting a direct and sustained host p38 MAPK activation. <i>Journal of Experimental Medicine</i> , 2013, 210, 2071-2086.	4.2	252
2	Lysyl-tRNA synthetase as a drug target in malaria and cryptosporidiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7015-7020.	3.3	94
3	Structure of Prolyl-tRNA Synthetase-Halofuginone Complex Provides Basis for Development of Drugs against Malaria and Toxoplasmosis. <i>Structure</i> , 2015, 23, 819-829.	1.6	92
4	Characterization of <i>Plasmodium falciparum</i> Calcium-dependent Protein Kinase 1 (PfCDPK1) and Its Role in Microneme Secretion during Erythrocyte Invasion. <i>Journal of Biological Chemistry</i> , 2013, 288, 1590-1602.	1.6	86
5	Structural Analysis of ABC-family Periplasmic Zinc Binding Protein Provides New Insights Into Mechanism of Ligand Uptake and Release. <i>Journal of Molecular Biology</i> , 2007, 367, 970-982.	2.0	70
6	Targeting Prolyl-tRNA Synthetase to Accelerate Drug Discovery against Malaria, Leishmaniasis, Toxoplasmosis, Cryptosporidiosis, and Coccidiosis. <i>Structure</i> , 2017, 25, 1495-1505.e6.	1.6	68
7	Structural basis of malaria parasite lysyl-tRNA synthetase inhibition by cladosporin. <i>Journal of Structural and Functional Genomics</i> , 2014, 15, 63-71.	1.2	62
8	Malaria parasite tyrosyl-tRNA synthetase secretion triggers pro-inflammatory responses. <i>Nature Communications</i> , 2011, 2, 530.	5.8	58
9	Inhibition of Protein Synthesis and Malaria Parasite Development by Drug Targeting of Methionyl-tRNA Synthetases. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1856-1867.	1.4	53
10	Drug targeting of one or more aminoacyl-tRNA synthetase in the malaria parasite <i>Plasmodium falciparum</i> . <i>Drug Discovery Today</i> , 2018, 23, 1233-1240.	3.2	47
11	Specific Stereoisomeric Conformations Determine the Drug Potency of Cladosporin Scaffold against Malarial Parasite. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5664-5678.	2.9	41
12	Structural and functional analysis of the anti-malarial drug target prolyl-tRNA synthetase. <i>Journal of Structural and Functional Genomics</i> , 2014, 15, 181-190.	1.2	40
13	Crystal Structure of Soluble Domain of Malaria Sporozoite Protein UIS3 in Complex with Lipid. <i>Journal of Biological Chemistry</i> , 2008, 283, 24077-24088.	1.6	35
14	Crystal Structure of Malaria Parasite Nucleosome Assembly Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 10076-10087.	1.6	32
15	Ligand-bound Structures Provide Atomic Snapshots for the Catalytic Mechanism of d-Amino Acid Deacylase. <i>Journal of Biological Chemistry</i> , 2010, 285, 5917-5930.	1.6	29
16	Crystal Structures of the Free and Anisic Acid Bound Triple Mutant of Phospholipase A2. <i>Journal of Molecular Biology</i> , 2003, 333, 367-376.	2.0	28
17	Structure of a superoxide dismutase and implications for copper-ion chelation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 892-901.	2.5	26
18	Protein Translation Enzyme lysyl-tRNA Synthetase Presents a New Target for Drug Development against Causative Agents of Loiasis and Schistosomiasis. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005084.	1.3	25

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19	An Appended Domain Results in an Unusual Architecture for Malaria Parasite Tryptophanyl-tRNA Synthetase. PLoS ONE, 2013, 8, e66224.	1.1	25
20	Observation of Additional Calcium Ion in the Crystal Structure of the Triple Mutant K56,120,121M of Bovine Pancreatic Phospholipase A2. Journal of Molecular Biology, 2002, 324, 755-762.	2.0	19
21	SAD phasing of a structure based on cocrystallized iodides using an in-house Cu K α X-ray source: effects of data redundancy and completeness on structure solution. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 931-934.	2.5	19
22	Structural basis of malaria parasite phenylalanine tRNA-synthetase inhibition by bicyclic azetidines. Nature Communications, 2021, 12, 343.	5.8	19
23	Structure of 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase dihydropteroate synthase from Plasmodium vivax sheds light on drug resistance. Journal of Biological Chemistry, 2018, 293, 14962-14972.	1.6	18
24	Dimerization of Arginyl-tRNA Synthetase by Free Heme Drives Its Inactivation in Plasmodium falciparum. Structure, 2016, 24, 1476-1487.	1.6	17
25	Structure, localization and histone binding properties of nuclear-associated nucleosome assembly protein from Plasmodium falciparum. Malaria Journal, 2010, 9, 90.	0.8	15
26	Structural analysis of actinidin and a comparison of cadmium and sulfur anomalous signals from actinidin crystals measured using in-house copper- and chromium-anode X-ray sources. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1323-1333.	2.5	13
27	Structural delineation of histone post-translation modifications in histone-nucleosome assembly protein complex. Journal of Structural Biology, 2012, 180, 1-9.	1.3	13
28	Structure-Based Targeting of Orthologous Pathogen Proteins Accelerates Antiparasitic Drug Discovery. ACS Infectious Diseases, 2017, 3, 281-292.	1.8	13
29	Iodide-SAD, SIR and SIRAS phasing for structure solution of a nucleosome assembly protein. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 618-622.	2.5	12
30	Structure of D-tyrosyl-tRNA ^{Tyr} deacylase using home-source Cu K α and moderate-quality iodide-SAD data: structural polymorphism and HEPES-bound enzyme states. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 584-592.	2.5	12
31	Atomic resolution crystal structure of glutaredoxin 1 from Plasmodium falciparum and comparison with other glutaredoxins. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 91-100.	2.5	12
32	Structural and functional attributes of malaria parasite diadenosine tetraphosphate hydrolase. Scientific Reports, 2016, 6, 19981.	1.6	12
33	Structural analyses of the malaria parasite aminoacyl-tRNA synthetases provide new avenues for antimalarial drug discovery. Protein Science, 2021, 30, 1793-1803.	3.1	12
34	Double drugging of prolyl-tRNA synthetase provides a new paradigm for anti-infective drug development. PLoS Pathogens, 2022, 18, e1010363.	2.1	12
35	Conformational heterogeneity in apo and drug-bound structures of Toxoplasma gondii prolyl-tRNA synthetase. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 714-724.	0.4	11
36	Structural and Functional Highlights of Vacuolar Soluble Protein 1 from Pathogen Trypanosoma brucei brucei. Journal of Biological Chemistry, 2015, 290, 30498-30513.	1.6	10

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37	Structural and functional analysis of Glutamyl-tRNA synthetase (TtGlnRS) from <i>Thermus thermophilus</i> HB8 and its complexes. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 1379-1386.	3.6	10
38	Crystal structures of the two domains that constitute the <i>Plasmodium vivax</i> p43 protein. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 135-146.	1.1	8
39	Utility of anion and cation combinations for phasing of protein structures. <i>Journal of Structural and Functional Genomics</i> , 2012, 13, 135-143.	1.2	7
40	Inhibition of <i>Plasmodium falciparum</i> Lysyl-tRNA Synthetase via a Piperidine Ring Scaffold Inspired Cladosporin Analogues. <i>ChemBioChem</i> , 2021, 22, 2468-2477.	1.3	7
41	Conformational changes in glutamyl-tRNA synthetases upon binding of the substrates and analogs using molecular docking and molecular dynamics approaches. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1-15.	2.0	6
42	2-Methoxybenzaldehyde thiosemicarbazone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o1336-o1338.	0.2	5
43	3,4:9,10-Dibenzo-1,12-diformyl-5,8-dioxododecane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o806-o807.	0.2	5
44	Design, Synthesis, and Structural Analysis of Cladosporin-Based Inhibitors of Malaria Parasites. <i>ACS Infectious Diseases</i> , 2021, 7, 1777-1794.	1.8	5
45	Engagement Rules That Underpin DBL-DARC Interactions for Ingress of <i>Plasmodium knowlesi</i> and <i>Plasmodium vivax</i> Into Human Erythrocytes. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 78.	1.6	4
46	Inhibition of <i>Plasmodium falciparum</i> phenylalanine tRNA synthetase provides opportunity for antimalarial drug development. <i>Structure</i> , 2022, 30, 962-972.e3.	1.6	4
47	Suggestive evidence for the involvement of the second calcium and surface loop in interfacial binding: monoclinic and trigonal crystal structures of a quadruple mutant of phospholipase A2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 717-724.	2.5	3
48	1,4-Bis{2-hydroxy-3-[N-(2-hydroxyethyl)imino]-5-methylbenzyl}piperazine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o83-o85.	0.2	2
49	N,N-Dimethyl-N'-phenylformamidinium perchlorate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o662-o664.	0.2	2
50	3,3,6,6-Tetramethyl-9-(4-pyridyl)-3,4,6,7,9,10-hexahydro-1,8(2H,5H)-acridinedione monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o659-o661.	0.2	2
51	10-Benzyl-3,3,6,6,9-pentamethyl-3,4,6,7,9,10-hexahydroacridine-1,8(2H,5H)-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2761-o2763.	0.2	2
52	Structural and Biochemical Characterization of Apicomplexan Inorganic Pyrophosphatases. <i>Scientific Reports</i> , 2017, 7, 5255.	1.6	2
53	Structure-Function Analysis of Liver Flavin Monooxygenase 3 that Drives Trimethylaminuria in Humans. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2018, 88, 1681-1690.	0.4	2
54	3-Phenyl-4a,5-dihydro-1,2,4-triazolo[3,4-b][1,3]benzothiazine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, o622-o624.	0.2	1

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55	3-[2-(2,4-Dichlorophenyl)vinyl]-2-methyl-1-phenylsulfonyl-1H-indole. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o703-o705.	0.2	1
56	Systematic Analysis of Proteomes with Emphasis on Insertions in Malaria Parasite Plasmodium falciparum. Protein and Peptide Letters, 2013, 20, 1088-1097.	0.4	1
57	A single amino acid substitution alters activity and specificity in Plasmodium falciparum aspartyl & asparaginyl-tRNA synthetases. Molecular and Biochemical Parasitology, 2022, , 111488.	0.5	1
58	8-Chloro-4-[1-(phenylsulfonyl)indol-3-yl]-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o49-o51.	0.2	0
59	1,2-Bis[1-phenylsulfonyl-3-(phenylthio)indol-2-yl]ethene. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o99-o101.	0.2	0
60	5-Amino-4-(4-dimethylaminophenyl)-2-(4-methoxyphenyl)-7-(pyrrolidin-1-yl)-1,6-naphthyridine-8-carbonitrile. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o200-o202.	0.2	0

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#	ARTICLE	IF	CITATIONS
73	2-Benzoyl-3-cyclohexyl-4-(p-methoxyphenyl)-5-phenylpyrrolidine-3-spiro-3- α -chroman-4-one. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1572-o1574.	0.2	0
74	{N,N-Bis[3-(phenylsulfanyl)-1-(phenylsulfonyl)indol-2-ylmethyl]amino}acetaldehyde dimethyl acetal. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o3205-o3207.	0.2	0