

Ethan A Merritt

List of Publications by Year in descending order

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59
papers

9,070
citations

109321

35
h-index

133252

59
g-index

60
all docs

60
docs citations

60
times ranked

9653
citing authors

#	ARTICLE	IF	CITATIONS
1	[26] Raster3D: Photorealistic molecular graphics. <i>Methods in Enzymology</i> , 1997, 277, 505-524.	1.0	3,518
2	Optimal description of a protein structure in terms of multiple groups undergoing TLS motion. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 439-450.	2.5	1,175
3	TLSMDweb server for the generation of multi-group TLS models. <i>Journal of Applied Crystallography</i> , 2006, 39, 109-111.	4.5	685
4	Crystal structure of cholera toxin Bâ€‘pentamer bound to receptor G_{M1} pentasaccharide. <i>Protein Science</i> , 1994, 3, 166-175.	7.6	534
5	AB5 toxins. <i>Current Opinion in Structural Biology</i> , 1995, 5, 165-171.	5.7	277
6	<i>Toxoplasma gondii</i> calcium-dependent protein kinase 1 is a target for selective kinase inhibitors. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 602-607.	8.2	172
7	The 1.25 Å... resolution refinement of the cholera toxin B-pentamer: evidence of peptide backbone strain at the receptor-binding site. <i>Journal of Molecular Biology</i> , 1998, 282, 1043-1059.	4.2	170
8	Characterization and Crystal Structure of a High-Affinity Pentavalent Receptor-Binding Inhibitor for Cholera Toxin and <i>E. coli</i> Heat-Labile Enterotoxin. <i>Journal of the American Chemical Society</i> , 2002, 124, 8818-8824.	13.7	137
9	Galactose-binding site in <i>Escherichia coli</i> heat-labile enterotoxin (LT) and cholera toxin (CT). <i>Molecular Microbiology</i> , 1994, 13, 745-753.	2.5	131
10	Discovery of Potent and Selective Inhibitors of CDPK1 from <i>C. parvum</i> and <i>T. gondii</i> . <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 331-335.	2.8	126
11	Solution and Crystallographic Studies of Branched Multivalent Ligands that Inhibit the Receptor-Binding of Cholera Toxin. <i>Journal of the American Chemical Society</i> , 2002, 124, 12991-12998.	13.7	124
12	AB5 toxins: structures and inhibitor design. <i>Current Opinion in Structural Biology</i> , 2000, 10, 680-686.	5.7	123
13	Expanding the model: anisotropic displacement parameters in protein structure refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1109-1117.	2.5	120
14	Development of <i>Toxoplasma gondii</i> Calcium-Dependent Protein Kinase 1 (<i>Tg</i> CDPK1) Inhibitors with Potent Anti- <i>Toxoplasma</i> Activity. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 2416-2426.	6.4	101
15	Structural studies of receptor binding by cholera toxin mutants. <i>Protein Science</i> , 1997, 6, 1516-1528.	7.6	98
16	Transmission of malaria to mosquitoes blocked by bumped kinase inhibitors. <i>Journal of Clinical Investigation</i> , 2012, 122, 2301-2305.	8.2	90
17	Development of an Orally Available and Central Nervous System (CNS) Penetrant <i>Toxoplasma gondii</i> Calcium-Dependent Protein Kinase 1 (<i>Tg</i> CDPK1) Inhibitor with Minimal Human Ether-a-go-go-Related Gene (hERG) Activity for the Treatment of <i>Toxoplasmosis</i> . <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6531-6546.	6.4	81
18	Extended-spectrum antiprotozoal bumped kinase inhibitors: A review. <i>Experimental Parasitology</i> , 2017, 180, 71-83.	1.2	71

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19	Neospora caninum Calcium-Dependent Protein Kinase 1 Is an Effective Drug Target for Neosporosis Therapy. PLoS ONE, 2014, 9, e92929.	2.5	63
20	To B or not to B: a question of resolution?. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 468-477.	2.5	62
21	Toxoplasma gondii Cathepsin L Is the Primary Target of the Invasion-inhibitory Compound Morpholinurea-leucyl-homophenyl-vinyl Sulfone Phenyl. Journal of Biological Chemistry, 2009, 284, 26839-26850.	3.4	60
22	Multiple Determinants for Selective Inhibition of Apicomplexan Calcium-Dependent Protein Kinase CDPK1. Journal of Medicinal Chemistry, 2012, 55, 2803-2810.	6.4	60
23	Structural foundation for the design of receptor antagonists targeting Escherichia coli heat-labile enterotoxin. Structure, 1997, 5, 1485-1499.	3.3	58
24	Development of potent and selective Plasmodium falciparum calcium-dependent protein kinase 4 (PfCDPK4) inhibitors that block the transmission of malaria to mosquitoes. European Journal of Medicinal Chemistry, 2014, 74, 562-573.	5.5	54
25	Validation of crystallographic models containing TLS or other descriptions of anisotropy. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 889-900.	2.5	52
26	Atomic resolution studies of carbonic anhydrase II. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 616-627.	2.5	51
27	Structure of Leishmania major methionyl-tRNA synthetase in complex with intermediate products methionyladenylate and pyrophosphate. Biochimie, 2011, 93, 570-582.	2.6	50
28	Potent and Selective Inhibitors of CDPK1 from <i>T. gondii</i> and <i>C. parvum</i> Based on a 5-Aminopyrazole-4-carboxamide Scaffold. ACS Medicinal Chemistry Letters, 2014, 5, 40-44.	2.8	49
29	Protein crystallography and infectious diseases. Protein Science, 1994, 3, 1670-1686.	7.6	48
30	The gatekeeper residue and beyond: homologous calcium-dependent protein kinases as drug development targets for veterinarian Apicomplexa parasites. Parasitology, 2014, 141, 1499-1509.	1.5	47
31	A Combined Approach Reveals a Regulatory Mechanism Coupling Src's Kinase Activity, Localization, and Phosphotransferase-Independent Functions. Molecular Cell, 2019, 74, 393-408.e20.	9.7	45
32	Benzoylbenzimidazole-based selective inhibitors targeting Cryptosporidium parvum and Toxoplasma gondii calcium-dependent protein kinase-1. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5264-5267.	2.2	43
33	Anchor-Based Design of Improved Cholera Toxin and E. coli Heat-Labile Enterotoxin Receptor Binding Antagonists that Display Multiple Binding Modes. Chemistry and Biology, 2002, 9, 215-224.	6.0	41
34	The Double-Length Tyrosyl-tRNA Synthetase from the Eukaryote Leishmania major Forms an Intrinsically Asymmetric Pseudo-Dimer. Journal of Molecular Biology, 2011, 409, 159-176.	4.2	40
35	Exploration of the GM1 receptor-binding site of heat-labile enterotoxin and cholera toxin by phenyl-ring-containing galactose derivatives. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 201-212.	2.5	38
36	HingeMaster: Normal mode hinge prediction approach and integration of complementary predictors. Proteins: Structure, Function and Bioinformatics, 2008, 73, 299-319.	2.6	38

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37	Crystal Structures of Trypanosomal Histidyl-tRNA Synthetase Illuminate Differences between Eukaryotic and Prokaryotic Homologs. <i>Journal of Molecular Biology</i> , 2010, 397, 481-494.	4.2	37
38	Screening of the Pathogen Box for inhibitors with dual efficacy against <i>Giardia lamblia</i> and <i>Cryptosporidium parvum</i> . <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006673.	3.0	37
39	Structural biology and structure-based inhibitor design of cholera toxin and heat-labile enterotoxin. <i>International Journal of Medical Microbiology</i> , 2004, 294, 217-223.	3.6	36
40	The Arg7Lys Mutant of Heat-Labile Enterotoxin Exhibits Great Flexibility of Active Site Loop 47-56 of the A Subunit. <i>Biochemistry</i> , 1995, 34, 10996-11004.	2.5	35
41	Structure determination of glycogen synthase kinase-3 from <i>Leishmania major</i> and comparative inhibitor structure-activity relationships with <i>Trypanosoma brucei</i> GSK-3. <i>Molecular and Biochemical Parasitology</i> , 2011, 176, 98-108.	1.1	35
42	Structures of Substrate- and Inhibitor-Bound Adenosine Deaminase from a Human Malaria Parasite Show a Dramatic Conformational Change and Shed Light on Drug Selectivity. <i>Journal of Molecular Biology</i> , 2008, 381, 975-988.	4.2	33
43	SAR Studies of 5-Aminopyrazole-4-carboxamide Analogues as Potent and Selective Inhibitors of <i>Toxoplasma gondii</i> CDPK1. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1184-1189.	2.8	32
44	Surprising leads for a cholera toxin receptor-binding antagonist: crystallographic studies of CTB mutants. <i>Structure</i> , 1995, 3, 561-570.	3.3	29
45	Identification and Validation of Small-Gatekeeper Kinases as Drug Targets in <i>Giardia lamblia</i> . <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005107.	3.0	18
46	The Crystal Structure and Activity of a Putative Trypanosomal Nucleoside Phosphorylase Reveal It to be a Homodimeric Uridine Phosphorylase. <i>Journal of Molecular Biology</i> , 2010, 396, 1244-1259.	4.2	16
47	Crystal structures of three protozoan homologs of tryptophanyl-tRNA synthetase. <i>Molecular and Biochemical Parasitology</i> , 2011, 177, 20-28.	1.1	16
48	Crystal structure of the aspartyl-tRNA synthetase from <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 2010, 169, 95-100.	1.1	14
49	Nek8445, a protein kinase required for microtubule regulation and cytokinesis in <i>Giardia lamblia</i> . <i>Molecular Biology of the Cell</i> , 2020, 31, 1611-1622.	2.1	14
50	<i>Toxoplasma</i> Calcium-Dependent Protein Kinase 1 Inhibitors: Probing Activity and Resistance Using Cellular Thermal Shift Assays. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	12
51	Methionyl-tRNA synthetase inhibitor has potent <i>in vivo</i> activity in a novel <i>Giardia lamblia</i> luciferase murine infection model. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 1218-1227.	3.0	12
52	Structure-based Discovery of a Pore-binding Ligand: Towards Assembly Inhibitors for Cholera and Related AB5Toxins. <i>Journal of Molecular Biology</i> , 1999, 285, 1169-1178.	4.2	11
53	Some B are more equivalent than others. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, 512-516.	0.3	11
54	Structure of <i>m</i> -carboxyphenyl- β -D-galactopyranoside complexed to heat-labile enterotoxin at 1.3 Å resolution: surprising variations in ligand-binding modes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 795-804.	2.5	10

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55	Structure of the prolyl-tRNA synthetase from the eukaryotic pathogen <i>Giardia lamblia</i> . Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1194-1200.	2.5	9
56	Structural diversity in a conserved cholera toxin epitope involved in ganglioside binding. Protein Science, 1995, 4, 841-848.	7.6	8
57	Structure of a <i>Trypanosoma brucei</i> β -hydrolase fold protein with unknown function. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 474-478.	0.7	5
58	7H-Pyrrolo[2,3-d]pyrimidin-4-amine-Based Inhibitors of Calcium-Dependent Protein Kinase 1 Have Distinct Inhibitory and Oral Pharmacokinetic Characteristics Compared with 1H-Pyrazolo[3,4-d]pyrimidin-4-amine-Based Inhibitors. ACS Infectious Diseases, 2018, 4, 516-522.	3.8	5
59	E. Coli Heat Labile Enterotoxin and Cholera Toxin B-Pentamer's Crystallographic Studies of Biological Activity. Molecular Biology Intelligence Unit, 1996, , 147-172.	0.2	2