

Qinghai Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

3,900
citations

25
h-index

51
g-index

51
ext. papers

4,331
ext. citations

7.3
avg, IF

5.08
L-index

#	Paper	IF	Citations
49	Structure of Cytochrome P450 2C9*2 in Complex with Losartan: Insights into the Effect of Genetic Polymorphism. <i>Molecular Pharmacology</i> , 2020 , 98, 529-539	4.3	2
48	Structural Insights into the Lipid A Transport Pathway in MsbA. <i>Structure</i> , 2019 , 27, 1114-1123.e3	5.2	13
47	Chemical tools for membrane protein structural biology. <i>Current Opinion in Structural Biology</i> , 2019 , 58, 278-285	8.1	6
46	Inhibit or Evade Multidrug Resistance P-Glycoprotein in Cancer Treatment. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5108-5121	8.3	132
45	Crystal Structure of CYP2B6 in Complex with an Efavirenz Analog. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	3
44	Chemically Stable Lipids for Membrane Protein Crystallization. <i>Crystal Growth and Design</i> , 2017 , 17, 3502-3511	3.3	19
43	Halogen-Interactions in the Cytochrome P450 Active Site: Structural Insights into Human CYP2B6 Substrate Selectivity. <i>ACS Chemical Biology</i> , 2017 , 12, 1204-1210	4.9	25
42	Structural Basis of Single-Nucleotide Polymorphisms in Cytochrome P450 2C9. <i>Biochemistry</i> , 2017 , 56, 5476-5480	3.2	33
41	Critical Role of Water Molecules in Proton Translocation by the Membrane-Bound Transhydrogenase. <i>Structure</i> , 2017 , 25, 1111-1119.e3	5.2	8
40	Proton-Translocating Nicotinamide Nucleotide Transhydrogenase: A Structural Perspective. <i>Frontiers in Physiology</i> , 2017 , 8, 1089	4.6	16
39	An electrostatic mechanism for Ca(2+)-mediated regulation of gap junction channels. <i>Nature Communications</i> , 2016 , 7, 8770	17.4	83
38	Effect of detergent binding on cytochrome P450 2B4 structure as analyzed by X-ray crystallography and deuterium-exchange mass spectrometry. <i>Biophysical Chemistry</i> , 2016 , 216, 1-8	3.5	8
37	Structure-Function Analysis of Mammalian CYP2B Enzymes Using 7-Substituted Coumarin Derivatives as Probes: Utility of Crystal Structures and Molecular Modeling in Understanding Xenobiotic Metabolism. <i>Molecular Pharmacology</i> , 2016 , 89, 435-45	4.3	14
36	Coumarin Derivatives as Substrate Probes of Mammalian Cytochromes P450 2B4 and 2B6: Assessing the Importance of 7-Alkoxy Chain Length, Halogen Substitution, and Non-Active Site Mutations. <i>Biochemistry</i> , 2016 , 55, 1997-2007	3.2	9
35	Structural and biophysical characterization of human cytochromes P450 2B6 and 2A6 bound to volatile hydrocarbons: analysis and comparison. <i>Molecular Pharmacology</i> , 2015 , 87, 649-59	4.3	11
34	Snapshots of ligand entry, malleable binding and induced helical movement in P-glycoprotein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 732-41		123
33	Cholate-based synthesis of size-tunable cage compounds. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1221-8	4.2	6

32	Distinct conformational spectrum of homologous multidrug ABC transporters. <i>Structure</i> , 2015 , 23, 450-460	5.0	74
31	Contributions of ionic interactions and protein dynamics to cytochrome P450 2D6 (CYP2D6) substrate and inhibitor binding. <i>Journal of Biological Chemistry</i> , 2015 , 290, 5092-5104	5.4	65
30	A survey of detergents for the purification of stable, active human cystic fibrosis transmembrane conductance regulator (CFTR). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2825-37	3.8	12
29	Understanding polyspecificity within the substrate-binding cavity of the human multidrug resistance P-glycoprotein. <i>FEBS Journal</i> , 2014 , 281, 673-82	5.7	50
28	X-ray crystal structure of the cytochrome P450 2B4 active site mutant F297A in complex with clopidogrel: insights into compensatory rearrangements of the binding pocket. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 530, 64-72	4.1	7
27	Synthesis of azole-enriched cyclic peptides by a clean solid-phase-based cyclization-cleavage strategy. <i>ACS Combinatorial Science</i> , 2013 , 15, 447-51	3.9	7
26	Engineered nanostructured β -sheet peptides protect membrane proteins. <i>Nature Methods</i> , 2013 , 10, 759-61	21.6	93
25	A structural snapshot of CYP2B4 in complex with paroxetine provides insights into ligand binding and clusters of conformational states. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013 , 346, 113-20	4.7	13
24	Mass spectrometry reveals synergistic effects of nucleotides, lipids, and drugs binding to a multidrug resistance efflux pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9704-9	11.5	128
23	Steroid-based facial amphiphiles for stabilization and crystallization of membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1203-11	11.5	111
22	Conformational adaptation of human cytochrome P450 2B6 and rabbit cytochrome P450 2B4 revealed upon binding multiple amlodipine molecules. <i>Biochemistry</i> , 2012 , 51, 7225-38	3.2	60
21	Synthesis and properties of dodecyl trehaloside detergents for membrane protein studies. <i>Langmuir</i> , 2012 , 28, 11173-81	4	17
20	Evidence for an intermediate conformational state of LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E698-704	11.5	24
19	Structural analysis of mammalian cytochrome P450 2B4 covalently bound to the mechanism-based inactivator tert-butylphenylacetylene: insight into partial enzymatic activity. <i>Biochemistry</i> , 2011 , 50, 4903-11	3.7	35
18	New amphiphiles for membrane protein structural biology. <i>Methods</i> , 2011 , 55, 318-23	4.6	64
17	Design and synthesis of Selenazole-containing peptides for cocrystallization with P-glycoprotein. <i>ChemBioChem</i> , 2011 , 12, 868-73	3.8	18
16	Structures of cytochrome P450 2B6 bound to 4-benzylpyridine and 4-(4-nitrobenzyl)pyridine: insight into inhibitor binding and rearrangement of active site side chains. <i>Molecular Pharmacology</i> , 2011 , 80, 1047-55	4.3	38
15	Structure of a cation-bound multidrug and toxic compound extrusion transporter. <i>Nature</i> , 2010 , 467, 991-4	50.4	216

14	Plasticity of cytochrome P450 2B4 as investigated by hydrogen-deuterium exchange mass spectrometry and X-ray crystallography. <i>Journal of Biological Chemistry</i> , 2010 , 285, 38602-11	5.4	48
13	Structures of cytochrome P450 2B4 complexed with the antiplatelet drugs ticlopidine and clopidogrel. <i>Biochemistry</i> , 2010 , 49, 8709-20	3.2	34
12	Design, synthesis, and properties of branch-chained maltoside detergents for stabilization and crystallization of integral membrane proteins: human connexin 26. <i>Langmuir</i> , 2010 , 26, 8690-6	4	32
11	Crystal structure of CYP24A1, a mitochondrial cytochrome P450 involved in vitamin D metabolism. <i>Journal of Molecular Biology</i> , 2010 , 396, 441-51	6.5	131
10	Efficient Synthesis of Unsaturated 1-Monoacyl Glycerols for in meso Crystallization of Membrane Proteins. <i>Synlett</i> , 2010 , 2011, 809-812	2.2	7
9	Crystal structure of a cytochrome P450 2B6 genetic variant in complex with the inhibitor 4-(4-chlorophenyl)imidazole at 2.0-Å resolution. <i>Molecular Pharmacology</i> , 2010 , 77, 529-38	4.3	73
8	A high-resolution crystal structure of ligand-free cytochrome P450 2B4 (H226Y) in a closed conformation. <i>FASEB Journal</i> , 2010 , 24, lb530	0.9	
7	Structure of P-glycoprotein reveals a molecular basis for poly-specific drug binding. <i>Science</i> , 2009 , 323, 1718-22	33.3	1586
6	Microscale NMR screening of new detergents for membrane protein structural biology. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7357-63	16.4	43
5	Designing facial amphiphiles for the stabilization of integral membrane proteins. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7023-5	16.4	89
4	Designing Facial Amphiphiles for the Stabilization of Integral Membrane Proteins. <i>Angewandte Chemie</i> , 2007 , 119, 7153-7155	3.6	22
3	Cys-10 mixed disulfide modifications exacerbate transthyretin familial variant amyloidogenicity: a likely explanation for variable clinical expression of amyloidosis and the lack of pathology in C10S/V30M transgenic mice?. <i>Biochemistry</i> , 2005 , 44, 9079-85	3.2	13
2	Metabolite-initiated protein misfolding may trigger Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 4752-7	11.5	195
1	Cys10 mixed disulfides make transthyretin more amyloidogenic under mildly acidic conditions. <i>Biochemistry</i> , 2003 , 42, 8756-61	3.2	83