

Qinghai Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,677
citations

201575

27
h-index

197736

49
g-index

51
all docs

51
docs citations

51
times ranked

6026
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of P-Glycoprotein Reveals a Molecular Basis for Poly-Specific Drug Binding. <i>Science</i> , 2009, 323, 1718-1722.	6.0	1,788
2	Inhibit or Evade Multidrug Resistance P-Glycoprotein in Cancer Treatment. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 5108-5121.	2.9	260
3	Structure of a cation-bound multidrug and toxic compound extrusion transporter. <i>Nature</i> , 2010, 467, 991-994.	13.7	249
4	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, 4752-4757.	3.3	204
5	Crystal Structure of CYP24A1, a Mitochondrial Cytochrome P450 Involved in Vitamin D Metabolism. <i>Journal of Molecular Biology</i> , 2010, 396, 441-451.	2.0	157
6	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, 9704-9709.	3.3	156
7	Snapshots of ligand entry, malleable binding and induced helical movement in P-glycoprotein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 732-741.	2.5	149
8	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.	3.3	127
9	An electrostatic mechanism for Ca ²⁺ -mediated regulation of gap junction channels. <i>Nature Communications</i> , 2016, 7, 8770.	5.8	119
10	Engineered nanostructured β -sheet peptides protect membrane proteins. <i>Nature Methods</i> , 2013, 10, 759-761.	9.0	110
11	Designing Facial Amphiphiles for the Stabilization of Integral Membrane Proteins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7023-7025.	7.2	99
12	Distinct Conformational Spectrum of Homologous Multidrug ABC Transporters. <i>Structure</i> , 2015, 23, 450-460.	1.6	94
13	Cys10 Mixed Disulfides Make Transthyretin More Amyloidogenic under Mildly Acidic Conditions. <i>Biochemistry</i> , 2003, 42, 8756-8761.	1.2	91
14	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.	1.6	86
15	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, 529-538.	1.0	85
16	New amphiphiles for membrane protein structural biology. <i>Methods</i> , 2011, 55, 318-323.	1.9	71
17	Conformational Adaptation of Human Cytochrome P450 2B6 and Rabbit Cytochrome P450 2B4 Revealed upon Binding Multiple Amlodipine Molecules. <i>Biochemistry</i> , 2012, 51, 7225-7238.	1.2	67
18	Understanding polyspecificity within the substrate-binding cavity of the human multidrug resistance P-glycoprotein. <i>FEBS Journal</i> , 2014, 281, 673-682.	2.2	58

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19	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, 38602-38611.	1.6	53
20	Microscale NMR Screening of New Detergents for Membrane Protein Structural Biology. <i>Journal of the American Chemical Society</i> , 2008, 130, 7357-7363.	6.6	49
21	Structural Basis of Single-Nucleotide Polymorphisms in Cytochrome P450 2C9. <i>Biochemistry</i> , 2017, 56, 5476-5480.	1.2	44
22	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, 1047-1055.	1.0	42
23	Structures of Cytochrome P450 2B4 Complexed with the Antiplatelet Drugs Ticlopidine and Clopidogrel. <i>Biochemistry</i> , 2010, 49, 8709-8720.	1.2	41
24	Structural Insights into the Lipid A Transport Pathway in MsbA. <i>Structure</i> , 2019, 27, 1114-1123.e3.	1.6	41
25	Halogen-H ₂ O Interactions in the Cytochrome P450 Active Site: Structural Insights into Human CYP2B6 Substrate Selectivity. <i>ACS Chemical Biology</i> , 2017, 12, 1204-1210.	1.6	40
26	Structural Analysis of Mammalian Cytochrome P450 2B4 Covalently Bound to the Mechanism-Based Inactivator <i>tert</i> -Butylphenylacetylene: Insight into Partial Enzymatic Activity. <i>Biochemistry</i> , 2011, 50, 4903-4911.	1.2	37
27	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, 8690-8696.	1.6	36
28	Designing Facial Amphiphiles for the Stabilization of Integral Membrane Proteins. <i>Angewandte Chemie</i> , 2007, 119, 7153-7155.	1.6	25
29	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.	3.3	25
30	Chemically Stable Lipids for Membrane Protein Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 3502-3511.	1.4	25
31	Proton-Translocating Nicotinamide Nucleotide Transhydrogenase: A Structural Perspective. <i>Frontiers in Physiology</i> , 2017, 8, 1089.	1.3	24
32	Synthesis and Properties of Dodecyl Trehaloside Detergents for Membrane Protein Studies. <i>Langmuir</i> , 2012, 28, 11173-11181.	1.6	22
33	Design and Synthesis of Selenazole-Containing Peptides for Cocrystallization with β -Glycoprotein. <i>ChemBioChem</i> , 2011, 12, 868-873.	1.3	20
34	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, 9079-9085.	1.2	17
35	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, 435-445.	1.0	17
36	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, 2825-2837.	1.4	16

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37	Structural and Biophysical Characterization of Human Cytochromes P450 2B6 and 2A6 Bound to Volatile Hydrocarbons: Analysis and Comparison. <i>Molecular Pharmacology</i> , 2015, 87, 649-659.	1.0	15
38	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, 113-120.	1.3	13
39	Chemical tools for membrane protein structural biology. <i>Current Opinion in Structural Biology</i> , 2019, 58, 278-285.	2.6	13
40	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.	1.2	12
41	Critical Role of Water Molecules in Proton Translocation by the Membrane-Bound Transhydrogenase. <i>Structure</i> , 2017, 25, 1111-1119.e3.	1.6	12
42	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.	1.0	11
43	Efficient Synthesis of Unsaturated 1-Monoacyl Glycerols for in meso Crystallization of Membrane Proteins. <i>Synlett</i> , 2011, 2011, 809-812.	1.0	9
44	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.	1.4	9
45	Synthesis of Azole-Enriched Cyclic Peptides by A Clean Solid-Phase-Based Cyclization-Cleavage Strategy. <i>ACS Combinatorial Science</i> , 2013, 15, 447-451.	3.8	9
46	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.	1.5	9
47	Cholate-Based Synthesis of Size-Tunable Cage Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 1221-1228.	1.7	8
48	Insights into the Genetic Variations of Human Cytochrome P450 2C9: Structural Analysis, Characterization and Comparison. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10206.	1.8	7
49	Crystal Structure of CYP2B6 in Complex with an Efavirenz Analog. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1025.	1.8	6
50	A high-resolution crystal structure of ligand-free cytochrome P450 2B4 (H226Y) in a closed conformation. <i>FASEB Journal</i> , 2010, 24, 16530.	0.2	0