Zhiguo Wang

List of Publications by Year
in descending order

43	591	687363 13	642732 23
papers	citations	h-index	g-index

43	43	43	710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular insights into the selective binding mechanism targeting parallel human telomeric G-quadruplex. Journal of Molecular Graphics and Modelling, 2022, 110, 108058.	2.4	8
2	Rational design of fatty acid photodecarboxylase enables the efficient decarboxylation of medium- and short-chain fatty acids for the production of gasoline bio-alkanes. Molecular Catalysis, 2022, 524, 112261.	2.0	9
3	Computational Insight into Biotransformation Profiles of Organophosphorus Flame Retardants to Their Diester Metabolites by Cytochrome P450. Molecules, 2022, 27, 2799.	3.8	2
4	Crystal Structure of an Intramolecular Mesaconyl-Coenzyme A Transferase From the 3-Hydroxypropionic Acid Cycle of Roseiflexus castenholzii. Frontiers in Microbiology, 2022, 13, .	3.5	4
5	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. Angewandte Chemie - International Edition, 2021, 60, 9326-9329.	13.8	16
6	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. Angewandte Chemie, 2021, 133, 9412-9415.	2.0	5
7	Light-driven decarboxylative deuteration enabled by a divergently engineered photodecarboxylase. Nature Communications, 2021, 12, 3983.	12.8	53
8	Inactivation Mechanism of Neuronal Nitric Oxide Synthase by (S)-2-Amino-5-(2-(methylthio)acetimidamido)pentanoic Acid: Chemical Conversion of the Inactivator in the Active Site. Inorganic Chemistry, 2021, 60, 9345-9358.	4.0	1
9	Efficient preparation of the chiral intermediate of luliconazole with Lactobacillus kefir alcohol dehydrogenase through rational rearrangement of the substrate binding pocket. Molecular Catalysis, 2021, 509, 111639.	2.0	3
10	Rational Design of Biocatalytic Deuteration Platform of Aldehydes. ACS Catalysis, 2021, 11, 13348-13354.	11.2	9
11	Combined 3D-QSAR, molecular docking and molecular dynamics study on the benzimidazole inhibitors targeting HCV NS5B polymerase. Journal of Biomolecular Structure and Dynamics, 2020, 38, 1071-1082.	3.5	14
12	Tolrestat acts atypically as a competitive inhibitor of the thermostable aldoâ€ketо reductase Tm1743 from ThermotogaÂmaritima. FEBS Letters, 2020, 594, 564-580.	2.8	5
13	Molecular Basis for Metabolic Regioselectivity and Mechanism of Cytochrome P450s toward Carcinogenic 4-(Methylnitrosamino)-(3-pyridyl)-1-butanone. Chemical Research in Toxicology, 2020, 33, 436-447.	3.3	10
14	Molecular insight into the selective binding between human telomere Gâ€quadruplex and a negatively charged stabilizer. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 892-902.	1.9	7
15	FBW7 Mediates Senescence and Pulmonary Fibrosis through Telomere Uncapping. Cell Metabolism, 2020, 32, 860-877.e9.	16.2	51
16	Antimicrobial activity and mechanism of peptide CM4 againstPseudomonas aeruginosa. Food and Function, 2020, 11, 7245-7254.	4.6	11
17	Insight Derived from Molecular Dynamics Simulation into the Selectivity Mechanism Targeting c-MYC G-Quadruplex. Journal of Physical Chemistry B, 2020, 124, 9773-9784.	2.6	7
18	Covidâ€19: From structure to therapeutic targeting in studying approved drugs and local DNA vaccination. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 1771-1773.	1.9	0

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19	In vivo evolutionary engineering of riboswitch with high-threshold for N-acetylneuraminic acid production. Metabolic Engineering, 2020, 59, 36-43.	7.0	34
20	Tuning the Binding Affinity of Heme-Responsive Biosensor for Precise and Dynamic Pathway Regulation. IScience, 2020, 23, 101067.	4.1	25
21	Binding and Metabolism of Brominated Flame Retardant Î²-1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane in Human Microsomal P450 Enzymes: Insights from Computational Studies. Chemical Research in Toxicology, 2020, 33, 1487-1496.	3.3	10
22	Effects of cation charges on the binding of stabilizers with human telomere and TERRA G-quadruplexes. Journal of Biomolecular Structure and Dynamics, 2019, 37, 1908-1921.	3.5	8
23	Exploiting Cofactor Versatility to Convert a FADâ€Dependent Baeyerâ€“Villiger Monooxygenase into a Ketoreductase. Angewandte Chemie - International Edition, 2019, 58, 14499-14503.	13.8	26
24	Exploiting Cofactor Versatility to Convert a FADâ€Dependent Baeyerâ€“Villiger Monooxygenase into a Ketoreductase. Angewandte Chemie, 2019, 131, 14641-14645.	2.0	7
25	The C-terminal domain conformational switch revealed by the crystal structure of malyl-CoA lyase from Roseiflexus castenholzii. Biochemical and Biophysical Research Communications, 2019, 518, 72-79.	2.1	0
26	Roles of Telomere Biology in Cell Senescence, Replicative and Chronological Ageing. Cells, 2019, 8, 54.	4.1	109
27	Molecular structure, expression, and bioactivity of B-cellâ€“activating factor of the TNF family (BAFF) and its receptor BAFF-R in cats (Felis catus). Molecular Immunology, 2019, 112, 59-71.	2.2	4
28	Cloning and high-level SUMO-mediated fusion expression of a serine protease inhibitor from Hyphantria cunea Drury that exhibits activity against papain. Protein Expression and Purification, 2019, 158, 36-43.	1.3	2
29	Activation and recyclization of a benzocyclobutenone derivative catalyzed by a chiral Rh(I) complex based on DFT investigations. Chemical Papers, 2019, 73, 995-1001.	2.2	0
30	QM/MM Study of the Dephosphorylation Mechanism of Adenosine 5â€²-(Î²,Î³-Imido)triphosphate Catalyzed by Sulfolobus Tokodaii Hexokinase. ChemistrySelect, 2018, 3, 1674-1681.	1.5	0
31	An alternative conformation of human TrpRS suggests a role of zinc in activating non-enzymatic function. RNA Biology, 2018, 15, 649-658.	3.1	12
32	Effects of the central potassium ions on the G-quadruplex and stabilizer binding. Journal of Molecular Graphics and Modelling, 2017, 72, 168-177.	2.4	27
33	Identification of a potential proton donor to the linking oxygen atom in a three-metal ion assisted catalysis pathway catalyzed by Fructose-1, 6-bisphosphatase. Journal of Molecular Graphics and Modelling, 2017, 73, 191-199.	2.4	1
34	Efficient Preparation of (S)-N-Boc-3-Hydroxylpiperidine Through Bioreduction by a Thermostable Aldo-KetoReductase. Applied Biochemistry and Biotechnology, 2017, 181, 1304-1313.	2.9	5
35	Identification of a cyclodextrin inclusion complex of antimicrobial peptide CM4 and its antimicrobial activity. Food Chemistry, 2017, 221, 296-301.	8.2	20
36	Identification of the active site of human mitochondrial malonylâ€coenzyme a decarboxylase: A combined computational study. Proteins: Structure, Function and Bioinformatics, 2016, 84, 792-802.	2.6	2

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37	Characterization of potassium binding with human telomeres. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 902-909.	1.9	7
38	Molecular dynamics and principal components of potassium binding with human telomeric intra-molecular G-quadruplex. Protein and Cell, 2015, 6, 423-433.	11.0	14
39	Theoretical studies on the interaction of guanine riboswitch with guanine and its closest analogues. Molecular Simulation, 2010, 36, 929-938.	2.0	4
40	STUDY ON THE INTERACTIONS OF Smac MIMETICS WITH XIAP-BIR3 DOMAIN BY DOCKING AND MOLECULAR DYNAMICS SIMULATIONS. Journal of Theoretical and Computational Chemistry, 2010, 09, 797-812.	1.8	6
41	Docking and molecular dynamics studies on the interaction of four imidazoline derivatives with potassium ion channel (Kir6.2). Molecular Simulation, 2010, 36, 166-174.	2.0	7
42	Docking and molecular dynamics studies toward the binding of new natural phenolic marine inhibitors and aldose reductase. Journal of Molecular Graphics and Modelling, 2009, 28, 162-169.	2.4	21
43	Docking and Molecular Dynamics Study on the Inhibitory Activity of Coumarins on Aldose Reductase. Journal of Physical Chemistry B, 2008, 112, 10033-10040.	2.6	25