

Zhiguo Wang

List of Publications by Year in descending order

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43
papers

591
citations

687363

13
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642732

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43
all docs

43
docs citations

43
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of Telomere Biology in Cell Senescence, Replicative and Chronological Ageing. <i>Cells</i> , 2019, 8, 54.	4.1	109
2	Light-driven decarboxylative deuteration enabled by a divergently engineered photodecarboxylase. <i>Nature Communications</i> , 2021, 12, 3983.	12.8	53
3	FBW7 Mediates Senescence and Pulmonary Fibrosis through Telomere Uncapping. <i>Cell Metabolism</i> , 2020, 32, 860-877.e9.	16.2	51
4	In vivo evolutionary engineering of riboswitch with high-threshold for N-acetylneuraminic acid production. <i>Metabolic Engineering</i> , 2020, 59, 36-43.	7.0	34
5	Effects of the central potassium ions on the G-quadruplex and stabilizer binding. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 72, 168-177.	2.4	27
6	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14499-14503.	13.8	26
7	Docking and Molecular Dynamics Study on the Inhibitory Activity of Coumarins on Aldose Reductase. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10033-10040.	2.6	25
8	Tuning the Binding Affinity of Heme-Responsive Biosensor for Precise and Dynamic Pathway Regulation. <i>IScience</i> , 2020, 23, 101067.	4.1	25
9	Docking and molecular dynamics studies toward the binding of new natural phenolic marine inhibitors and aldose reductase. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 28, 162-169.	2.4	21
10	Identification of a cyclodextrin inclusion complex of antimicrobial peptide CM4 and its antimicrobial activity. <i>Food Chemistry</i> , 2017, 221, 296-301.	8.2	20
11	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9326-9329.	13.8	16
12	Molecular dynamics and principal components of potassium binding with human telomeric intra-molecular G-quadruplex. <i>Protein and Cell</i> , 2015, 6, 423-433.	11.0	14
13	Combined 3D-QSAR, molecular docking and molecular dynamics study on the benzimidazole inhibitors targeting HCV NS5B polymerase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1071-1082.	3.5	14
14	An alternative conformation of human TrpRS suggests a role of zinc in activating non-enzymatic function. <i>RNA Biology</i> , 2018, 15, 649-658.	3.1	12
15	Antimicrobial activity and mechanism of peptide CM4 against <i>Pseudomonas aeruginosa</i> . <i>Food and Function</i> , 2020, 11, 7245-7254.	4.6	11
16	Molecular Basis for Metabolic Regioselectivity and Mechanism of Cytochrome P450s toward Carcinogenic 4-(Methylnitrosamino)-(3-pyridyl)-1-butanone. <i>Chemical Research in Toxicology</i> , 2020, 33, 436-447.	3.3	10
17	Binding and Metabolism of Brominated Flame Retardant 1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane in Human Microsomal P450 Enzymes: Insights from Computational Studies. <i>Chemical Research in Toxicology</i> , 2020, 33, 1487-1496.	3.3	10
18	Rational Design of Biocatalytic Deuteration Platform of Aldehydes. <i>ACS Catalysis</i> , 2021, 11, 13348-13354.	11.2	9

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19	Rational design of fatty acid photodecarboxylase enables the efficient decarboxylation of medium- and short-chain fatty acids for the production of gasoline bio-alkanes. <i>Molecular Catalysis</i> , 2022, 524, 112261.	2.0	9
20	Effects of cation charges on the binding of stabilizers with human telomere and TERRA G-quadruplexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1908-1921.	3.5	8
21	Molecular insights into the selective binding mechanism targeting parallel human telomeric G-quadruplex. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 110, 108058.	2.4	8
22	Docking and molecular dynamics studies on the interaction of four imidazoline derivatives with potassium ion channel (Kir6.2). <i>Molecular Simulation</i> , 2010, 36, 166-174.	2.0	7
23	Characterization of potassium binding with human telomeres. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015, 42, 902-909.	1.9	7
24	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie</i> , 2019, 131, 14641-14645.	2.0	7
25	Molecular insight into the selective binding between human telomere G-quadruplex and a negatively charged stabilizer. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 892-902.	1.9	7
26	Insight Derived from Molecular Dynamics Simulation into the Selectivity Mechanism Targeting c-MYC G-Quadruplex. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9773-9784.	2.6	7
27	STUDY ON THE INTERACTIONS OF Smac MIMETICS WITH XIAP-BIR3 DOMAIN BY DOCKING AND MOLECULAR DYNAMICS SIMULATIONS. <i>Journal of Theoretical and Computational Chemistry</i> , 2010, 09, 797-812.	1.8	6
28	Efficient Preparation of (S)-N-Boc-3-Hydroxypiperidine Through Bioreduction by a Thermostable Aldo-Keto Reductase. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 1304-1313.	2.9	5
29	Tolrestat acts atypically as a competitive inhibitor of the thermostable aldo-keto reductase Tm1743 from <i>Thermotoga Amaritima</i> . <i>FEBS Letters</i> , 2020, 594, 564-580.	2.8	5
30	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. <i>Angewandte Chemie</i> , 2021, 133, 9412-9415.	2.0	5
31	Theoretical studies on the interaction of guanine riboswitch with guanine and its closest analogues. <i>Molecular Simulation</i> , 2010, 36, 929-938.	2.0	4
32	Molecular structure, expression, and bioactivity of B-cell-activating factor of the TNF family (BAFF) and its receptor BAFF-R in cats (<i>Felis catus</i>). <i>Molecular Immunology</i> , 2019, 112, 59-71.	2.2	4
33	Crystal Structure of an Intramolecular Mesoconyl-Coenzyme A Transferase From the 3-Hydroxypropionic Acid Cycle of <i>Roseiflexus castenholzii</i> . <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	4
34	Efficient preparation of the chiral intermediate of luliconazole with <i>Lactobacillus kefir</i> alcohol dehydrogenase through rational rearrangement of the substrate binding pocket. <i>Molecular Catalysis</i> , 2021, 509, 111639.	2.0	3
35	Identification of the active site of human mitochondrial malonyl-coenzyme a decarboxylase: A combined computational study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 792-802.	2.6	2
36	Cloning and high-level SUMO-mediated fusion expression of a serine protease inhibitor from <i>Hyphantria cunea</i> Drury that exhibits activity against papain. <i>Protein Expression and Purification</i> , 2019, 158, 36-43.	1.3	2

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37	Computational Insight into Biotransformation Profiles of Organophosphorus Flame Retardants to Their Diester Metabolites by Cytochrome P450. <i>Molecules</i> , 2022, 27, 2799.	3.8	2
38	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. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 73, 191-199.	2.4	1
39	Inactivation Mechanism of Neuronal Nitric Oxide Synthase by (<i>S</i>)-2-Amino-5-(2-(methylthio)acetimidamido)pentanoic Acid: Chemical Conversion of the Inactivator in the Active Site. <i>Inorganic Chemistry</i> , 2021, 60, 9345-9358.	4.0	1
40	QM/MM Study of the Dephosphorylation Mechanism of Adenosine 5'-(γ -Imido)triphosphate Catalyzed by <i>Sulfolobus Tokodaii</i> Hexokinase. <i>ChemistrySelect</i> , 2018, 3, 1674-1681.	1.5	0
41	The C-terminal domain conformational switch revealed by the crystal structure of malyl-CoA lyase from <i>Roseiflexus castenholzii</i> . <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 72-79.	2.1	0
42	Activation and recyclization of a benzocyclobutenone derivative catalyzed by a chiral Rh(I) complex based on DFT investigations. <i>Chemical Papers</i> , 2019, 73, 995-1001.	2.2	0
43	Covid-19: From structure to therapeutic targeting in studying approved drugs and local DNA vaccination. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 1771-1773.	1.9	0