

Haiyang Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3549774/haiyang-zhang-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

52
papers

1,003
citations

18
h-index

30
g-index

56
ext. papers

1,198
ext. citations

4.9
avg, IF

4.59
L-index

#	Paper	IF	Citations
52	Analysis of the conformational stability and activity of <i>Candida antarctica</i> lipase B in organic solvents: insight from molecular dynamics and quantum mechanics/simulations. <i>Journal of Biological Chemistry</i> , 2010 , 285, 28434-41	5.4	120
51	Comparison of Implicit and Explicit Solvent Models for the Calculation of Solvation Free Energy in Organic Solvents. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1034-1043	6.4	96
50	Force Field Benchmark of Amino Acids: I. Hydration and Diffusion in Different Water Models. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1037-1052	6.1	56
49	Investigation of the inclusions of puerarin and daidzin with beta-cyclodextrin by molecular dynamics simulation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4876-83	3.4	54
48	Molecular recognition in different environments: β -cyclodextrin dimer formation in organic solvents. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12684-93	3.4	46
47	NMR Study on the Inclusion Complexes of β -Cyclodextrin with Isoflavones. <i>Molecules</i> , 2016 , 21, 372	4.8	41
46	Polymer monoliths with chelating functionalities for solid phase extraction of metal ions from water. <i>Journal of Chromatography A</i> , 2014 , 1343, 128-34	4.5	37
45	Quantification of Solvent Contribution to the Stability of Noncovalent Complexes. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4542-51	6.4	33
44	Photoswitchable molecular switches featuring both axial and tetrahedral chirality. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7346	7.1	31
43	Insight into the structural deformations of beta-cyclodextrin caused by alcohol cosolvents and guest molecules. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 3880-9	3.4	31
42	Free-Energy Calculations of Ionic Hydration Consistent with the Experimental Hydration Free Energy of the Proton. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2705-2712	6.4	30
41	Rational Design of Methodology-Independent Metal Parameters Using a Nonbonded Dummy Model. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3250-60	6.4	30
40	Force Field Benchmark of Amino Acids. 2. Partition Coefficients between Water and Organic Solvents. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1669-1681	6.1	28
39	The first suspension polymerization for preparing optically active microparticles purely constructed from chirally helical substituted polyacetylenes. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1216-23	4.8	28
38	Cooperative Binding of Cyclodextrin Dimers to Isoflavone Analogues Elucidated by Free Energy Calculations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7163-7173	3.8	26
37	Generalized Born and Explicit Solvent Models for Free Energy Calculations in Organic Solvents: Cyclodextrin Dimerization. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5103-13	6.4	25
36	Atomistic Simulation of Protein Encapsulation in Metal-Organic Frameworks. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 477-84	3.4	25

35	Refined Dummy Atom Model of Mg(2+) by Simple Parameter Screening Strategy with Revised Experimental Solvation Free Energy. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 2575-86	6.1	22
34	Evaluation of Generalized Born Models for Large Scale Affinity Prediction of Cyclodextrin Host-Guest Complexes. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 2080-2092	6.1	18
33	Optically active helical polymers with pendent thiourea groups: Chiral organocatalyst for asymmetric michael addition reaction. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1816-1823	2.5	17
32	Comparative Assessment of Computational Methods for Free Energy Calculations of Ionic Hydration. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 2763-2775	6.1	16
31	Effective Biodegradation of Aflatoxin B1 Using the (BL010) Strain. <i>Toxins</i> , 2018 , 10,	4.9	16
30	Prediction of Partition Coefficients of Environmental Toxins Using Computational Chemistry Methods. <i>ACS Omega</i> , 2019 , 4, 13772-13781	3.9	15
29	Theoretical and experimental studies on activity of Yarrowia lipolytica lipase in methanol/water mixtures. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1976-83	3.4	15
28	Lid closure mechanism of Yarrowia lipolytica lipase in methanol investigated by molecular dynamics simulation. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2033-41	6.1	15
27	Thermodynamic and NMR investigations on the adsorption mechanism of puerarin with oligo-β-cyclodextrin-coupled polystyrene-based matrix. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 611-617	3.5	12
26	Sodium hexadecyl sulfate as an interfacial substance adjusting the adsorption of a protein on carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15132-9	9.5	11
25	Pathway for Biodegrading Nodularin (NOD) by Sphingopyxis sp. USTB-05. <i>Toxins</i> , 2016 , 8,	4.9	11
24	Structural basis of microcystinase activity for biodegrading microcystin-LR. <i>Chemosphere</i> , 2019 , 236, 124281	8.4	9
23	A Novel Medium Poly(vinyl acetate-triallyl isocyanurate-divinylbenzene) Coupled with Oligo-β-cyclodextrin for the Isolation of Puerarin from Pueraria Flavones. <i>Chromatographia</i> , 2010 , 72, 47-54	2.1	9
22	β-cyclodextrin inclusion complexes with vitamin A and its esters: A comparative experimental and molecular modeling study. <i>Journal of Molecular Structure</i> , 2021 , 1223, 129001	3.4	8
21	Modeling Coordination-Directed Self-Assembly of ML Nanocapsule Featuring Competitive Guest Encapsulation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2082-2086	6.4	7
20	Rotational and Translational Diffusion of Proteins as a Function of Concentration. <i>ACS Omega</i> , 2019 , 4, 20654-20664	3.9	7
19	Enhancement of methanol resistance of Yarrowia lipolytica lipase 2 using β-cyclodextrin as an additive: Insights from experiments and molecular dynamics simulation. <i>Enzyme and Microbial Technology</i> , 2017 , 96, 157-162	3.8	6
18	Optically active core/shell nanoparticles prepared using self-assembled polymer micelle as reactive nanoreactor. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 4415-4422	2.5	6

17	Cloning and Expression of Genes for Biodegrading Nodularin by sp. USTB-05. <i>Toxins</i> , 2019 , 11,	4.9	5
16	Helical Polymers Showing Inverse Helicity and Synergistic Effect in Chiral Catalysis: Catalytic Functionality Determining Enantioconfiguration and Helical Frameworks Providing Asymmetric Microenvironment. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 880-888	2.6	5
15	Glycerol induced stability enhancement and conformational changes of β -lactoglobulin. <i>Food Chemistry</i> , 2020 , 308, 125596	8.5	5
14	A model for the shuttle motions of puerarin and daidzin inside the cavity of β -cyclodextrin in aqueous acetic acid: insights from molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2012 , 18, 221-7	2	4
13	Quantitative predictions from molecular simulations using explicit or implicit interactions. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1560	7.9	4
12	Purification and activity of the first recombinant enzyme for biodegrading hepatotoxin by <i>Sphingopyxis</i> sp. USTB-05. <i>Algal Research</i> , 2020 , 47, 101863	5	3
11	Force Field Benchmark of Amino Acids. 3. Hydration with Scaled Lennard-Jones Interactions. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3571-3582	6.1	3
10	Boosted activity by engineering the enzyme microenvironment in cascade reaction: A molecular understanding. <i>Synthetic and Systems Biotechnology</i> , 2021 , 6, 163-172	4.2	3
9	Carboxylesterases from bacterial enrichment culture degrade strobilurin fungicides.. <i>Science of the Total Environment</i> , 2021 , 814, 152751	10.2	2
8	Pathway for biodegrading coumarin by a newly isolated <i>Pseudomonas</i> sp. USTB-Z. <i>World Journal of Microbiology and Biotechnology</i> , 2021 , 37, 89	4.4	2
7	Developing and Assessing Nonbonded Dummy Models of Magnesium Ion with Different Hydration Free Energy References. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2981-2997	6.1	2
6	Rational Design of Nonbonded Point Charge Models for Divalent Metal Cations with Lennard-Jones 12-6 Potential. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4031-4044	6.1	2
5	Role of Host-Guest Charge Transfer in Cyclodextrin Complexation: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17745-17756	3.8	1
4	Rational Design of Nonbonded Point Charge Models for Highly Charged Metal Cations with Lennard-Jones 12-6 Potential. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4613-4629	6.1	1
3	Computational Investigation of Structural Basis for Enhanced Binding of Isoflavone Analogues with Mitochondrial Aldehyde Dehydrogenase.. <i>ACS Omega</i> , 2022 , 7, 8115-8127	3.9	1
2	Genomic Analysis of <i>Sphingopyxis</i> sp. USTB-05 for Biodegrading Cyanobacterial Hepatotoxins. <i>Toxins</i> , 2022 , 14, 333	4.9	1
1	Characterization and genomic analysis of an efficient dibutyl phthalate degrading bacterium <i>Microbacterium</i> sp. USTB-Y. <i>World Journal of Microbiology and Biotechnology</i> , 2021 , 37, 212	4.4	