

Jin-Feng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,255
citations

361413

20
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

1061
citing authors

#	ARTICLE	IF	CITATIONS
1	Fragment Quantum Mechanical Calculation of Proteins and Its Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 2748-2757.	15.6	173
2	Ginsenoside Rg1 Inhibits Glucagon-Induced Hepatic Gluconeogenesis through Akt-FoxO1 Interaction. <i>Theranostics</i> , 2017, 7, 4001-4012.	10.0	104
3	Hydrogen-bond structure dynamics in bulk water: insights from <i>ab initio</i> simulations with coupled cluster theory. <i>Chemical Science</i> , 2018, 9, 2065-2073.	7.4	98
4	Electrostatically Embedded Generalized Molecular Fractionation with Conjugate Caps Method for Full Quantum Mechanical Calculation of Protein Energy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7149-7161.	2.5	93
5	Fragment quantum chemical approach to geometry optimization and vibrational spectrum calculation of proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1864-1875.	2.8	60
6	Quantum Fragment Based <i>ab Initio</i> Molecular Dynamics for Proteins. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5897-5905.	5.3	59
7	Fragment Quantum Mechanical Method for Large-Sized Ion-Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2021-2034.	5.3	54
8	Structure of liquid water – a dynamical mixture of tetrahedral and ring-and-chain like structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11931-11936.	2.8	50
9	Calculation of protein-ligand binding affinities based on a fragment quantum mechanical method. <i>RSC Advances</i> , 2015, 5, 107020-107030.	3.6	47
10	Improving the Scoring of Protein-Ligand Binding Affinity by Including the Effects of Structural Water and Electronic Polarization. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 1306-1314.	5.4	39
11	Fragment-based quantum mechanical approach to biomolecules, molecular clusters, molecular crystals and liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12341-12367.	2.8	38
12	Accurate prediction of energetic properties of ionic liquid clusters using a fragment-based quantum mechanical method. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20657-20666.	2.8	35
13	Towards complete assignment of the infrared spectrum of the protonated water cluster H+(H2O)21. <i>Nature Communications</i> , 2021, 12, 6141.	12.8	35
14	An improved fragment-based quantum mechanical method for calculation of electrostatic solvation energy of proteins. <i>Journal of Chemical Physics</i> , 2013, 139, 214104.	3.0	34
15	Predicting the phase diagram of solid carbon dioxide at high pressure from first principles. <i>Npj Quantum Materials</i> , 2019, 4, .	5.2	29
16	Differential regulation of baicalin and scutellarin on AMPK and Akt in promoting adipose cell glucose disposal. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 598-606.	3.8	27
17	Vibrational Signatures of Isomeric Lithiated N-acetyl-D-hexosamines by Gas-Phase Infrared Multiple-Photon Dissociation (IRMPD) Spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 539-550.	2.8	26
18	Fragment-based quantum mechanical calculation of protein-protein binding affinities. <i>Journal of Computational Chemistry</i> , 2018, 39, 1617-1628.	3.3	23

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19	Quantitative Prediction of Aggregation-Induced Emission: A Full Quantum Mechanical Approach to the Optical Spectra. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11550-11555.	13.8	23
20	A Coupled Ionization-Conformational Equilibrium Is Required To Understand the Properties of Ionizable Residues in the Hydrophobic Interior of Staphylococcal Nuclease. <i>Journal of the American Chemical Society</i> , 2018, 140, 1639-1648.	13.7	22
21	Stability, Vibrations, and Diffusion of Hydrogen Gas in Clathrate Hydrates: Insights from Ab Initio Calculations on Condensed-Phase Crystalline Structures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12052-12061.	3.1	20
22	Probing the Ion-Specific Effects at the Water/Air Interface and Water-Mediated Ion Pairing in Sodium Halide Solution with <i>Ab Initio</i> Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10202-10209.	2.6	19
23	Effect of Pterostilbene, a Natural Derivative of Resveratrol, in the Treatment of Colorectal Cancer through Top1/Tdp1-Mediated DNA Repair Pathway. <i>Cancers</i> , 2021, 13, 4002.	3.7	19
24	Prediction of Excited-State Properties of Oligoacene Crystals Using Fragment-Based Quantum Mechanical Method. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5407-5417.	2.5	18
25	Directional Proton Transfer in the Reaction of the Simplest Criegee Intermediate with Water Involving the Formation of Transient H_3O^+ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3379-3386.	4.6	16
26	Lanthanide Metal-Organic Framework-Based Fluorescent Sensor Arrays to Discriminate and Quantify Ingredients of Natural Medicine. <i>Langmuir</i> , 2021, 37, 5321-5328.	3.5	15
27	The mitochondrial β -oxidation enzyme HADHA restrains hepatic glucagon response by promoting β -hydroxybutyrate production. <i>Nature Communications</i> , 2022, 13, 386.	12.8	13
28	PBSA_E: A PBSA-Based Free Energy Estimator for Protein-Ligand Binding Affinity. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 854-861.	5.4	12
29	Toward High-level Machine Learning Potential for Water Based on Quantum Fragmentation and Neural Networks. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3926-3936.	2.5	11
30	G1 phase cell cycle arrest in NSCLC in response to LZ-106, an analog of enoxacin, is orchestrated through ROS overproduction in a P53-dependent manner. <i>Carcinogenesis</i> , 2019, 40, 131-144.	2.8	9
31	Crystal Structure Optimization and Gibbs Free Energy Comparison of Five Sulfathiazole Polymorphs by the Embedded Fragment QM Method at the DFT Level. <i>Crystals</i> , 2019, 9, 256.	2.2	7
32	Ab initio determination of crystal stability of di-p-tolyl disulfide. <i>Scientific Reports</i> , 2021, 11, 7076.	3.3	4
33	Novel theoretically designed HIV-1 non-nucleoside reverse transcriptase inhibitors derived from nevirapine. <i>Journal of Molecular Modeling</i> , 2014, 20, 2451.	1.8	3
34	Quantitative Prediction of Aggregation-Induced Emission: A Full Quantum Mechanical Approach to the Optical Spectra. <i>Angewandte Chemie</i> , 2020, 132, 11647-11652.	2.0	3
35	Phase Transition of Ice at High Pressures and Low Temperatures. <i>Molecules</i> , 2020, 25, 486.	3.8	3
36	Ionization of D571 Is Coupled with SARS-CoV-2 Spike Up/Down Equilibrium Revealing the pH-Dependent Allosteric Mechanism of Receptor-Binding Domains. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4828-4839.	2.6	3

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37	Improving protein-ligand binding prediction by considering the bridging water molecules in Autodock. <i>Journal of Theoretical and Computational Chemistry</i> , 2019, 18, 1950027.	1.8	2
38	QM Implementation in Drug Design: Does It Really Help?. <i>Methods in Molecular Biology</i> , 2020, 2114, 19-35.	0.9	2
39	<i>Ab initio</i> molecular dynamics simulation of liquid water with fragment-based quantum mechanical approach under periodic boundary conditions. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 761-768.	1.3	1