

Hujun Shen

List of Publications by Year in descending order

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51
papers

1,017
citations

471509

17
h-index

454955

30
g-index

51
all docs

51
docs citations

51
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Spin Moment As a Catalytic Descriptor for Fe Single-Atom Catalysts Supported on C ₂ N. <i>Journal of the American Chemical Society</i> , 2021, 143, 4405-4413.	13.7	138
2	Atom-Pair Catalysts Supported by N-Doped Graphene for the Nitrogen Reduction Reaction: <i>d</i> -Band Center-Based Descriptor. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6320-6329.	4.6	82
3	Molecular Dynamics Simulations of Viral RNA Polymerases Link Conserved and Correlated Motions of Functional Elements to Fidelity. <i>Journal of Molecular Biology</i> , 2011, 410, 159-181.	4.2	79
4	Fast and accurate computation schemes for evaluating vibrational entropy of proteins. <i>Journal of Computational Chemistry</i> , 2011, 32, 3188-3193.	3.3	79
5	Coarse-Grained Modeling of Nucleic Acids Using Anisotropic Gay-Berne and Electric Multipole Potentials. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 676-693.	5.3	47
6	What Is the Role of Motif D in the Nucleotide Incorporation Catalyzed by the RNA-dependent RNA Polymerase from Poliovirus?. <i>PLoS Computational Biology</i> , 2012, 8, e1002851.	3.2	46
7	Anisotropic Coarse-Grained Model for Proteins Based On Gay-Berne and Electric Multipole Potentials. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 731-750.	5.3	44
8	An Improved Functional Form for the Temperature Scaling Factors of the Components of the Mesoscopic UNRES Force Field for Simulations of Protein Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8738-8744.	2.6	42
9	Toward Rational Design of Dual-Metal-Site Catalysts: Catalytic Descriptor Exploration. <i>ACS Catalysis</i> , 2022, 12, 3420-3429.	11.2	40
10	Gay-Berne and electrostatic multipole based coarse-grain potential in implicit solvent. <i>Journal of Chemical Physics</i> , 2011, 135, 155104.	3.0	36
11	Hybrid Density Functional Theory Study of Native Defects and Nonmetal (C, N, S, and P) Doping in a Bi ₂ WO ₆ Photocatalyst. <i>ACS Omega</i> , 2020, 5, 29081-29091.	3.5	33
12	Specific and Sensitive Fluorescence Anisotropy Sensing of Guanine-Quadruplex Structures via a Photoinduced Electron Transfer Mechanism. <i>Analytical Chemistry</i> , 2012, 84, 8088-8094.	6.5	32
13	Liposomal nanohybrid cerasomes for mitochondria-targeted drug delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7291-7299.	5.8	26
14	Exploring the Proton Conductance and Drug Resistance of BM2 Channel through Molecular Dynamics Simulations and Free Energy Calculations at Different pH Conditions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 982-988.	2.6	20
15	A Review of Physics-Based Coarse-Grained Potentials for the Simulations of Protein Structure and Dynamics. <i>Annual Reports in Computational Chemistry</i> , 2012, 8, 129-148.	1.7	19
16	Coarse-Grained Model for Water Involving a Virtual Site. <i>Journal of Physical Chemistry B</i> , 2016, 120, 733-739.	2.6	19
17	Exploring the Dynamics of Four RNA-Dependent RNA Polymerases by a Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14515-14524.	2.6	18
18	Effects of native defects and cerium impurity on the monoclinic BiVO ₄ photocatalyst obtained via PBE+U calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25297-25305.	2.8	17

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19	An anisotropic coarse-grained model based on Gay-Berne and electric multipole potentials and its application to simulate a DMPC bilayer in an implicit solvent model. <i>Journal of Computational Chemistry</i> , 2015, 36, 1103-1113.	3.3	16
20	Effect of Cholesterol on Membrane Dipole Potential: Atomistic and Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3780-3795.	5.3	14
21	JWKB method as an exact technique. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 336-352.	2.0	13
22	Coarse-grained simulations for organic molecular liquids based on Gay-Berne and electric multipole potentials. <i>Journal of Molecular Modeling</i> , 2013, 19, 551-558.	1.8	10
23	Effects of electrostatic interaction on the properties of ionic liquids correlated with the change of free volume. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5389-5395.	2.8	10
24	A bimodal MRI and NIR liposome nanoprobe for tumor targeted molecular imaging. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8832-8841.	5.8	9
25	Molecular Dynamics Simulations of Iron/Graphite Interfacial Behaviors: Influence of Oxygen. <i>ISIJ International</i> , 2018, 58, 1022-1027.	1.4	9
26	An intermittent microwave-exfoliated non-expansive graphite oxide process for highly-efficient production of high-quality graphene. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 288-294.	9.4	9
27	Extension of CAVS coarse-grained model to phospholipid membranes: The importance of electrostatics. <i>Journal of Computational Chemistry</i> , 2017, 38, 971-980.	3.3	8
28	Implementation of a Serial Replica Exchange Method in a Physics-Based United-Residue (UNRES) Force Field. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1386-1400.	5.3	7
29	Effects of Ether Linkage on Membrane Dipole Potential and Cholesterol Flip-Flop Motion in Lipid Bilayer Membranes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7818-7828.	2.6	7
30	Comparative study of the binding mode between cytochrome P450 17A1 and prostate cancer drugs in the absence of haem iron. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4161-4170.	3.5	7
31	Interfacial Water Structure at Zwitterionic Membrane/Water Interface: The Importance of Interactions between Water and Lipid Carbonyl Groups. <i>ACS Omega</i> , 2020, 5, 18080-18090.	3.5	7
32	Second-Order Nonlinear Optics Response of the Boron-Dipyrromethenes-Based Mislinked Expanded Porphyrins: Revealing the Role of the BF ₂ Group. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 412-418.	4.6	7
33	Regulating the structure and morphology of nickel sulfides for electrochemical energy storage: The role of solvent pH. <i>Chemical Engineering Journal</i> , 2022, 441, 136130.	12.7	7
34	Theoretical Elucidation of the Origin for Assembly of the DAP12 Dimer with Only One NKG2C in the Lipid Membrane. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4789-4797.	2.6	6
35	Molecular Dynamics Simulations of Ether- and Ester-Linked Phospholipid Bilayers: A Comparative Study of Water Models. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9399-9408.	2.6	6
36	Different Binding Modes of SARS-CoV-1 and SARS-CoV-2 Fusion Peptides to Cell Membranes: The Influence of Peptide Helix Length. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4261-4271.	2.6	6

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37	Bridging the Missing Link between Structure and Fidelity of the RNA-Dependent RNA Polymerase from Poliovirus through Free Energy Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5195-5205.	5.3	5
38	Exploring the Relation among Free Volume, Electrostatic Interaction, and Side Chain Flexibility of Ether-Functionalized Ionic Liquids by Molecular Dynamics Simulations. <i>ChemistrySelect</i> , 2017, 2, 5545-5551.	1.5	5
39	Effect of Cholesterol and 6-Ketcholestanol on Membrane Dipole Potential and Sterol Flip-Flop Motion in Bilayer Membranes. <i>Langmuir</i> , 2019, 35, 11232-11241.	3.5	5
40	Investigation of Family 18 Chitinases and Inhibitors by Computer-Aided Approaches. <i>Current Drug Targets</i> , 2012, 13, 502-511.	2.1	5
41	Mechanistic insight into the functional transition of the enzyme guanylate kinase induced by a single mutation. <i>Scientific Reports</i> , 2015, 5, 8405.	3.3	4
42	An ultra-effective pathway for fully removing the oxygen components of graphene oxide by a flame-assisted microwave process. <i>Dalton Transactions</i> , 2020, 49, 6964-6968.	3.3	4
43	Structural, transport, thermal, and electrochemical properties of (La _{1-x} Sr _x) ₂ CoO ₄ ± δ cathode in solid-oxide fuel cells. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 411-423.	2.9	3
44	On the Bidirectionality of the JWKB Connection Formula at a Linear Turning Point. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 740-754.	1.0	3
45	Adsorption of Organic Molecules and Surfactants on Graphene: A Coarse-Grained Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 700-711.	2.5	2
46	Effects of Fluorination and Molybdenum Codoping on Monoclinic BiVO ₄ Photocatalyst by HSE Calculations. <i>ACS Omega</i> , 0, , .	3.5	2
47	Chiral elasticity of DNA. <i>Soft Matter</i> , 2012, 8, 10090.	2.7	1
48	Effects of mutations on active site conformation and dynamics of RNA-dependent RNA polymerase from Coxsackievirus B3. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 77, 330-337.	2.4	1
49	Extension of the CAVS model to the simulation of helical peptides in a membrane environment. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12850-12863.	2.8	1
50	Investigation Binding Patterns of Human Carboxylesterase I (hCES I) with Broad Substrates by MD Simulations. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 1222-1233.	2.1	1
51	Molecular Recognition of Human Angiotensin-Converting Enzyme I (hACE I) and Different Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 1211-1221.	2.1	0