

Jing Huang

List of Publications by Year in descending order

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80
papers

9,538
citations

218381

26
h-index

71532

76
g-index

91
all docs

91
docs citations

91
times ranked

12194
citing authors

#	ARTICLE	IF	CITATIONS
1	CHARMM36m: an improved force field for folded and intrinsically disordered proteins. <i>Nature Methods</i> , 2017, 14, 71-73.	9.0	3,959
2	CHARMM36 all-atom additive protein force field: Validation based on comparison to NMR data. <i>Journal of Computational Chemistry</i> , 2013, 34, 2135-2145.	1.5	2,613
3	An Empirical Polarizable Force Field Based on the Classical Drude Oscillator Model: Development History and Recent Applications. <i>Chemical Reviews</i> , 2016, 116, 4983-5013.	23.0	434
4	AXL is a candidate receptor for SARS-CoV-2 that promotes infection of pulmonary and bronchial epithelial cells. <i>Cell Research</i> , 2021, 31, 126-140.	5.7	356
5	Polarizable Force Field for Peptides and Proteins Based on the Classical Drude Oscillator. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5430-5449.	2.3	329
6	Recent Advances in Polarizable Force Fields for Macromolecules: Microsecond Simulations of Proteins Using the Classical Drude Oscillator Model. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3144-3150.	2.1	139
7	Force field development and simulations of intrinsically disordered proteins. <i>Current Opinion in Structural Biology</i> , 2018, 48, 40-48.	2.6	139
8	Characterization, antioxidant and immunomodulatory effects of selenized polysaccharides from dandelion roots. <i>Carbohydrate Polymers</i> , 2021, 260, 117796.	5.1	78
9	Molecular dynamics simulations using the drude polarizable force field on GPUs with OpenMM: Implementation, validation, and benchmarks. <i>Journal of Computational Chemistry</i> , 2018, 39, 1682-1689.	1.5	77
10	Induction of Peptide Bond Dipoles Drives Cooperative Helix Formation in the (AAQAA) ₃ Peptide. <i>Biophysical Journal</i> , 2014, 107, 991-997.	0.2	76
11	CHARMM36: An Improved Force Field for Folded and Intrinsically Disordered Proteins. <i>Biophysical Journal</i> , 2017, 112, 175a-176a.	0.2	56
12	Machine-Learning-Assisted Free Energy Simulation of Solution-Phase and Enzyme Reactions. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5745-5758.	2.3	55
13	Nanocrystals for improved dermal drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 128, 170-178.	2.0	54
14	Further Optimization and Validation of the Classical Drude Polarizable Protein Force Field. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3221-3239.	2.3	53
15	Turning Defense into Offense: Defensin Mimetics as Novel Antibiotics Targeting Lipid II. <i>PLoS Pathogens</i> , 2013, 9, e1003732.	2.1	50
16	Comparison of Additive and Polarizable Models with Explicit Treatment of Long-Range Lennard-Jones Interactions Using Alkane Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 948-958.	2.3	50
17	Ligand Self-Assembling through Complementary Hydrogen-Bonding in the Coordination Sphere of a Transition Metal Center: The 6-Diphenylphosphanylpyridin-2(1 <i>H</i>)-one System. <i>Journal of the American Chemical Society</i> , 2011, 133, 964-975.	6.6	44
18	Infrared and Near-Infrared Spectroscopy of Acetylacetone and Hexafluoroacetylacetone. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7980-7990.	1.1	43

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19	Structural insights into the gating mechanism of human SLC26A9 mediated by its C-terminal sequence. <i>Cell Discovery</i> , 2020, 6, 55.	3.1	43
20	Scan and Unlock: A Programmable DNA Molecular Automaton for Cell-Selective Activation of Ligand-Based Signaling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6733-6743.	7.2	43
21	Mapping the Drude polarizable force field onto a multipole and induced dipole model. <i>Journal of Chemical Physics</i> , 2017, 147, 161702.	1.2	42
22	Kinetic isotope effect in malonaldehyde determined from path integral Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 204-211.	1.3	35
23	Enhanced Conformational Sampling Using Replica Exchange with Concurrent Solute Scaling and Hamiltonian Biasing Realized in One Dimension. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2855-2867.	2.3	35
24	Conformational Heterogeneity of the HIV Envelope Glycan Shield. <i>Scientific Reports</i> , 2017, 7, 4435.	1.6	32
25	Induced Dipole-Dipole Interactions Influence the Unfolding Pathways of Wild-Type and Mutant Amyloid β -Peptides. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15574-15582.	1.2	30
26	TFPI is a colonic crypt receptor for TcdB from hypervirulent clade 2 C. <i>Cell</i> , 2022, 185, 980-994.e15.	13.5	30
27	A Comparison of QM/MM Simulations with and without the Drude Oscillator Model Based on Hydration Free Energies of Simple Solutes. <i>Molecules</i> , 2018, 23, 2695.	1.7	29
28	Design, synthesis and bioevaluation of novel substituted triazines as potential dual PI3K/mTOR inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2020, 204, 112637.	2.6	29
29	Distinct allosteric mechanisms of first-generation MsbA inhibitors. <i>Science</i> , 2021, 374, 580-585.	6.0	29
30	Screening active compounds from <i>Corydalis yanhusuo</i> by combining high expression VEGF receptor HEK293 cell membrane chromatography with HPLC - ESI - IT - TOF - MSn method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 136, 134-139.	1.4	27
31	Cryo-EM structure of the human heteromeric amino acid transporter b ^{0,+} AT-rBAT. <i>Science Advances</i> , 2020, 6, eaay6379.	4.7	27
32	Cell membrane chromatography coupled with UHPLC-ESI-MS/MS method to screen target components from <i>Peucedanum praeruptorum</i> Dunn acting on β 1A adrenergic receptor. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1011, 158-162.	1.2	25
33	An explicit-solvent hybrid QM and MM approach for predicting pKa of small molecules in SAMPL6 challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 1191-1201.	1.3	25
34	Interactions of Water and Alkanes: Modifying Additive Force Fields to Account for Polarization Effects. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3854-3867.	2.3	25
35	Calculating distribution coefficients based on multi-scale free energy simulations: an evaluation of MM and QM/MM explicit solvent simulations of water-cyclohexane transfer in the SAMPL5 challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2016, 30, 989-1006.	1.3	24
36	CHARMM-GUI Drude prepper for molecular dynamics simulation using the classical Drude polarizable force field. <i>Journal of Computational Chemistry</i> , 2022, 43, 359-375.	1.5	24

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37	The inhibitory effect of piperine from Fructus piperis extract on the degranulation of RBL-2H3 cells. <i>FÃ-toterapÃ-Ãç</i> , 2014, 99, 218-226.	1.1	20
38	Ardisimamillosides G and H, Two New Triterpenoid Saponins from <i>Ardisia mamillata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2003, 51, 875-877.	0.6	19
39	An Estimation of Hybrid Quantum Mechanical Molecular Mechanical Polarization Energies for Small Molecules Using Polarizable Force-Field Approaches. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 679-695.	2.3	19
40	Structure of Penta-Alanine Investigated by Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5325-5339.	1.2	18
41	Glucagon-like peptide-1 cleavage product GLP-1(9â€“36) reduces neuroinflammation from stroke via the activation of insulin-like growth factor 1 receptor in astrocytes. <i>European Journal of Pharmacology</i> , 2020, 887, 173581.	1.7	18
42	Scan and Unlock: A Programmable DNA Molecular Automaton for Cellâ€“Selective Activation of Ligandâ€“Based Signaling. <i>Angewandte Chemie</i> , 2021, 133, 6807-6817.	1.6	17
43	Explicit Hydrogen-Bond Potentials and Their Application to NMR Scalar Couplings in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 467-476.	2.3	16
44	Hydrogen-Bond and Solvent Dynamics in Transition Metal Complexes: A Combined Simulation and NMR-Investigation. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14406-14415.	1.2	16
45	Inhibitory effect of atenolol on urinary excretion of metformin via down-regulating multidrug and toxin extrusion protein 1 (rMate1) expression in the kidney of rats. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 68, 18-26.	1.9	16
46	Absolute binding free energies for octa-acids and guests in SAMPL5. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 107-118.	1.3	16
47	Influence of Shenxiang Glucose Injection on the Activities of Six CYP Isozymes and Metabolism of Warfarin in Rats Assessed Using Probe Cocktail and Pharmacokinetic Approaches. <i>Molecules</i> , 2017, 22, 1994.	1.7	15
48	<scp>DIRECTâ€“D</scp>: An automated method to identify and quantify conformational variationsâ€“application to Î²₂â€“adrenergic <scp>GPCR</scp>. <i>Journal of Computational Chemistry</i> , 2016, 37, 416-425.	1.5	13
49	Absolute binding free energy calculations of CBClip hostâ€“guest systems in the SAMPL5 blind challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 71-85.	1.3	13
50	Rational exploration of fold atlas for human solute carrier proteins. <i>Structure</i> , 2022, 30, 1321-1330.e5.	1.6	13
51	Characterization of Compounds Acting on the Î±1A Adrenergic Receptor from <i>Caulis spatholobi</i> by Cell Membrane Chromatography with Possible Application for Treatment of Benign Prostatic Hyperplasia. <i>Analytical Letters</i> , 2014, 47, 1661-1669.	1.0	11
52	Comparison of the pharmacokinetic profiles of 13 phenolic acids and 6 triterpenes in normal and leukopenia rats after oral administration of <i>Sanguisorba officinalis</i> L. extract by LCâ€“MS/MS. <i>Journal of Separation Science</i> , 2020, 43, 4103-4122.	1.3	11
53	Dynamical potential approach to DCO highly excited vibration. <i>Chemical Physics Letters</i> , 2007, 439, 231-235.	1.2	9
54	Pharmacokinetic herb-drug interactions between Aidi injection and doxorubicin in rats with diethylnitrosamine-induced hepatocellular carcinoma. <i>BMC Pharmacology & Toxicology</i> , 2021, 22, 48.	1.0	9

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55	Conformational Heterogeneity of Intracellular Loop 3 of the μ -opioid G-protein Coupled Receptor. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11897-11904.	1.2	8
56	Survival-Associated Alternative Splicing Events in Pan-Renal Cell Carcinoma. <i>Frontiers in Oncology</i> , 2019, 9, 1317.	1.3	8
57	Discovery of the First Examples of Threonine Tyrosine Kinase PROTAC Degraders. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2313-2328.	2.9	8
58	Structure–activity exploration of a small-molecule Lipid II inhibitor. <i>Drug Design, Development and Therapy</i> , 2015, 9, 2383.	2.0	7
59	Towards Development of Small Molecule Lipid II Inhibitors as Novel Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0164515.	1.1	7
60	Binding Energy and Free Energy of Calcium Ion to Calmodulin EF-Hands with the Drude Polarizable Force Field. <i>ACS Physical Chemistry Au</i> , 2022, 2, 143-155.	1.9	7
61	Predicting partition coefficients of drug-like molecules in the SAMPL6 challenge with Drude polarizable force fields. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 421-435.	1.3	6
62	Determination of Triterpenoids and Phenolic Acids from <i>Sanguisorba officinalis</i> L. by HPLC-ELSD and Its Application. <i>Molecules</i> , 2021, 26, 4505.	1.7	6
63	Design, Synthesis, and Biological Evaluation of 2-Formyl Tetrahydronaphthridine Urea Derivatives as New Selective Covalently Reversible FGFR4 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 3249-3265.	2.9	6
64	Force field refinement from NMR scalar couplings. <i>Chemical Physics</i> , 2012, 396, 116-123.	0.9	5
65	Validating the CHARMM36m protein force field with LJ-PME reveals altered hydrogen bonding dynamics under elevated pressures. <i>Communications Chemistry</i> , 2021, 4, .	2.0	5
66	Atomistic simulations of reactive processes in the gas- and condensed-phase. <i>International Reviews in Physical Chemistry</i> , 2012, 31, 235-264.	0.9	4
67	Differential changes in the pharmacokinetics of doxorubicin in diethylnitrosamine-induced hepatocarcinoma model rats. <i>Xenobiotica</i> , 2020, 50, 1251-1257.	0.5	4
68	Characterization and Biological Activities of Polysaccharides from Dandelion (<i>Taraxacum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 222 T	1.1	4
69	Methylguanidinium at the Air/Water Interface: A Simulation Study with the Drude Polarizable Force Field. <i>Journal of Physical Chemistry B</i> , 2021, 125, 393-405.	1.2	4
70	EVIS: An Enhanced Virtual Screening Approach Based on Pocket"Ligand Similarity. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 498-510.	2.5	4
71	Cooperative Helix Formation in the (AAQAA) ₃ Peptide Obtained with the Drude Polarizable Force Field. <i>Biophysical Journal</i> , 2015, 108, 518a.	0.2	3
72	Interactions Between Nucleosomes: From Atomistic Simulation to Polymer Model. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 624679.	1.6	3

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73	Proteinâ€™Ligand Binding Molecular Details Revealed by Terahertz Optical Kerr Spectroscopy: A Simulation Study. <i>Jacs Au</i> , 2021, 1, 1788-1797.	3.6	3
74	Pharmacokinetics, Tissue Distribution, and Excretion Study of Cajanonic Acid A in Rats by UPLC-MS/MS. <i>Planta Medica</i> , 2020, 86, 312-318.	0.7	2
75	Enhanced Conformational Sampling of Carbohydrates using Biasing Potential and Solute Tempering Replica Exchange: Application to the N-glycan on the HIV gp120 Envelope Protein. <i>Biophysical Journal</i> , 2015, 108, 157a.	0.2	1
76	Wideâ€™ranging analysis of survivalâ€™related alternative splicing events in invasive breast carcinoma. <i>Oncology Letters</i> , 2020, 20, 1866-1878.	0.8	1
77	Identification of U937/JAK3-M511l Acute Myeloid Leukemia Cells as a Sensitive Model to JAK3 Inhibitor. <i>Frontiers in Oncology</i> , 2021, 11, 807200.	1.3	1
78	Development of a Polarizable Force Field for Macromolecules Based on the Classical Drude Oscillator. <i>Biophysical Journal</i> , 2014, 106, 43a.	0.2	0
79	Capturing the Cooperativity of Backbone Hydrogen Bonding with Polarizable Force Fields. <i>Biophysical Journal</i> , 2019, 116, 143a.	0.2	0
80	Editorial: Special Issue on Polarizable Force Fields for Biomolecular Modelling. <i>Journal of Computational Biophysics and Chemistry</i> , 2022, 21, 389-390.	1.0	0