

Lingle Wang

List of Publications by Year in descending order

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43
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7,533
citations

172457

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254184

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49
all docs

49
docs citations

49
times ranked

8805
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Experimental and Calculated Error on the Performance of Affinity Predictions. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 703-717.	5.4	4
2	Novel Physics-Based Ensemble Modeling Approach That Utilizes 3D Molecular Conformation and Packing to Access Aqueous Thermodynamic Solubility: A Case Study of Orally Available Bromodomain and Extraterminal Domain Inhibitor Lead Optimization Series. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1412-1426.	5.4	12
3	OPLS4: Improving Force Field Accuracy on Challenging Regimes of Chemical Space. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4291-4300.	5.3	582
4	General Theory of Fragment Linking in Molecular Design: Why Fragment Linking Rarely Succeeds and How to Improve Outcomes. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 450-462.	5.3	21
5	Enhancing Water Sampling in Free Energy Calculations with Grand Canonical Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6061-6076.	5.3	53
6	Is Structure-Based Drug Design Ready for Selectivity Optimization?. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6211-6227.	5.4	25
7	Advancing Free-Energy Calculations of Metalloenzymes in Drug Discovery via Implementation of LFMM Potentials. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6926-6937.	5.3	8
8	Evaluation of Free Energy Calculations for the Prioritization of Macrocyclic Synthesis. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3489-3498.	5.4	13
9	Improving the Accuracy of Protein Thermostability Predictions for Single Point Mutations. <i>Biophysical Journal</i> , 2020, 119, 115-127.	0.5	37
10	Toward Atomistic Modeling of Irreversible Covalent Inhibitor Binding Kinetics. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3955-3967.	5.4	23
11	Relative Binding Affinity Prediction of Charge-Changing Sequence Mutations with FEP in Protein-Protein Interfaces. <i>Journal of Molecular Biology</i> , 2019, 431, 1481-1493.	4.2	68
12	OPLS3e: Extending Force Field Coverage for Drug-Like Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1863-1874.	5.3	698
13	Rigorous Free Energy Perturbation Approach to Estimating Relative Binding Affinities between Ligands with Multiple Protonation and Tautomeric States. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 424-435.	5.3	36
14	Protein-Ligand Binding Free Energy Calculations with FEP+. <i>Methods in Molecular Biology</i> , 2019, 2022, 201-232.	0.9	43
15	Modeling the value of predictive affinity scoring in preclinical drug discovery. <i>Current Opinion in Structural Biology</i> , 2018, 52, 103-110.	5.7	14
16	Accurate Calculation of Relative Binding Free Energies between Ligands with Different Net Charges. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6346-6358.	5.3	77
17	Predicting resistance of clinical Abl mutations to targeted kinase inhibitors using alchemical free-energy calculations. <i>Communications Biology</i> , 2018, 1, 70.	4.4	66
18	Conformational Free Energy Changes via an Alchemical Path without Reaction Coordinates. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4428-4435.	4.6	11

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19	Efficient sampling of puckering states of monosaccharides through replica exchange with solute tempering and bond softening. <i>Journal of Chemical Physics</i> , 2018, 149, 072306.	3.0	12
20	Prospective Evaluation of Free Energy Calculations for the Prioritization of Cathepsin L Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2485-2497.	6.4	110
21	Free Energy Perturbation Calculation of Relative Binding Free Energy between Broadly Neutralizing Antibodies and the gp120 Glycoprotein of HIV-1. <i>Journal of Molecular Biology</i> , 2017, 429, 930-947.	4.2	82
22	Predicting the Effect of Amino Acid Single-Point Mutations on Protein Stability—Large-Scale Validation of MD-Based Relative Free Energy Calculations. <i>Journal of Molecular Biology</i> , 2017, 429, 948-963.	4.2	89
23	Accurate and Reliable Prediction of the Binding Affinities of Macrocycles to Their Protein Targets. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6290-6300.	5.3	39
24	Advancing Drug Discovery through Enhanced Free Energy Calculations. <i>Accounts of Chemical Research</i> , 2017, 50, 1625-1632.	15.6	211
25	Accurate Modeling of Scaffold Hopping Transformations in Drug Discovery. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 42-54.	5.3	103
26	A Critical Review of Validation, Blind Testing, and Real-World Use of Alchemical Protein-Ligand Binding Free Energy Calculations. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2577-2585.	2.1	88
27	Predicting Binding Affinities for GPCR Ligands Using Free-Energy Perturbation. <i>ACS Omega</i> , 2016, 1, 293-304.	3.5	108
28	Sensitivity in Binding Free Energies Due to Protein Reorganization. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4620-4631.	5.3	65
29	OPLS3: A Force Field Providing Broad Coverage of Drug-like Small Molecules and Proteins. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 281-296.	5.3	2,349
30	How To Deal with Multiple Binding Poses in Alchemical Relative Protein-Ligand Binding Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2670-2679.	5.3	54
31	Accurate and Reliable Prediction of Relative Ligand Binding Potency in Prospective Drug Discovery by Way of a Modern Free-Energy Calculation Protocol and Force Field. <i>Journal of the American Chemical Society</i> , 2015, 137, 2695-2703.	13.7	931
32	Is Ring Breaking Feasible in Relative Binding Free Energy Calculations?. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 727-735.	5.4	42
33	Accurate Binding Free Energy Predictions in Fragment Optimization. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2411-2420.	5.4	119
34	Docking and Free Energy Perturbation Studies of Ligand Binding in the Kappa Opioid Receptor. <i>Journal of Physical Chemistry B</i> , 2015, 119, 824-835.	2.6	26
35	Modeling Local Structural Rearrangements Using FEP/REST: Application to Relative Binding Affinity Predictions of CDK2 Inhibitors. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1282-1293.	5.3	179
36	On achieving high accuracy and reliability in the calculation of relative protein-ligand binding affinities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1937-1942.	7.1	204

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37	Replica Exchange with Solute Scaling: A More Efficient Version of Replica Exchange with Solute Tempering (REST2). <i>Journal of Physical Chemistry B</i> , 2011, 115, 9431-9438.	2.6	595
38	Ligand binding to protein-binding pockets with wet and dry regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1326-1330.	7.1	178
39	Competition of Electrostatic and Hydrophobic Interactions between Small Hydrophobes and Model Enclosures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7294-7301.	2.6	32
40	A Displaced-Solvent Functional Analysis of Model Hydrophobic Enclosures. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2924-2934.	5.3	31
41	Hydrophobic interactions in model enclosures from small to large length scales: non-additivity in explicit and implicit solvent models. <i>Faraday Discussions</i> , 2010, 146, 247.	3.2	31
42	Thermodynamic Properties of Liquid Water: An Application of a Nonparametric Approach to Computing the Entropy of a Neat Fluid. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1462-1473.	5.3	47
43	Impacting Drug Discovery Projects with Large-Scale Enumerations, Machine Learning Strategies, and Free-Energy Predictions. <i>ACS Symposium Series</i> , 0, , 205-226.	0.5	5