

Tom Kurtzman

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

815
citations

567281

15
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden bias in the DUD-E dataset leads to misleading performance of deep learning in structure-based virtual screening. <i>PLoS ONE</i> , 2019, 14, e0220113.	2.5	144
2	Thermodynamics of Water in an Enzyme Active Site: Grid-Based Hydration Analysis of Coagulation Factor Xa. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2769-2780.	5.3	117
3	Solvation thermodynamic mapping of molecular surfaces in AmberTools: GIST. <i>Journal of Computational Chemistry</i> , 2016, 37, 2029-2037.	3.3	95
4	Testing inhomogeneous solvation theory in structure-based ligand discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6839-E6846.	7.1	65
5	Dewetting transitions in protein cavities. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1856-1869.	2.6	64
6	Solvation Structure and Thermodynamic Mapping (SSTMap): An Open-Source, Flexible Package for the Analysis of Water in Molecular Dynamics Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 418-425.	5.3	40
7	Spatial Decomposition of Translational Water-Water Correlation Entropy in Binding Pockets. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 414-429.	5.3	34
8	Enthalpic Breakdown of Water Structure on Protein Active-Site Surfaces. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8743-8756.	2.6	33
9	Simulating Water Exchange to Buried Binding Sites. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2684-2691.	5.3	33
10	Estimation of Solvation Entropy and Enthalpy via Analysis of Water Oxygen-Hydrogen Correlations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5090-5102.	5.3	31
11	Parameterization of an effective potential for protein-ligand binding from host-guest affinity data. <i>Journal of Molecular Recognition</i> , 2016, 29, 10-21.	2.1	27
12	Water Pharmacophore: Designing Ligands using Molecular Dynamics Simulations with Water. <i>Scientific Reports</i> , 2018, 8, 10400.	3.3	25
13	A molecular reconstruction approach to site-based 3D-RISM and comparison to GIST hydration thermodynamic maps in an enzyme active site. <i>PLoS ONE</i> , 2019, 14, e0219473.	2.5	22
14	Thermodynamic Decomposition of Solvation Free Energies with Particle Mesh Ewald and Long-Range Lennard-Jones Interactions in Grid Inhomogeneous Solvation Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2714-2724.	5.3	19
15	A combined treatment of hydration and dynamical effects for the modeling of host-guest binding thermodynamics: the SAMPL5 blinded challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 29-44.	2.9	18
16	Inclusion of enclosed hydration effects in the binding free energy estimation of dopamine D3 receptor complexes. <i>PLoS ONE</i> , 2019, 14, e0222902.	2.5	9
17	New Dopamine D3-Selective Receptor Ligands Containing a 6-Methoxy-1,2,3,4-tetrahydroisoquinolin-7-ol Motif. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 990-995.	2.8	8
18	Application of the alchemical transfer and potential of mean force methods to the SAMPL8 host-guest blinded challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2022, 36, 63-76.	2.9	8

#	ARTICLE	IF	CITATIONS
19	An online repository of solvation thermodynamic and structural maps of SARS-CoV-2 targets. Journal of Computer-Aided Molecular Design, 2020, 34, 1219-1228.	2.9	7
20	Role of Displacing Confined Solvent in the Conformational Equilibrium of β -Cyclodextrin. Journal of Physical Chemistry B, 2019, 123, 8378-8386.	2.6	6
21	Developing end-point methods for absolute binding free energy calculation using the Boltzmann-quasiharmonic model. Physical Chemistry Chemical Physics, 2022, 24, 6037-6052.	2.8	5