

Robert Abel

List of Publications by Year in descending order

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18
papers

4,347
citations

567281

15
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

6599
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Advancing Drug Discovery through Enhanced Free Energy Calculations. <i>Accounts of Chemical Research</i> , 2017, 50, 1625-1632.	15.6	211
4	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
5	Predicting Binding Affinities for GPCR Ligands Using Free-Energy Perturbation. <i>ACS Omega</i> , 2016, 1, 293-304.	3.5	108
6	Accurate Modeling of Scaffold Hopping Transformations in Drug Discovery. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 42-54.	5.3	103
7	Reaction-Based Enumeration, Active Learning, and Free Energy Calculations To Rapidly Explore Synthetically Tractable Chemical Space and Optimize Potency of Cyclin-Dependent Kinase 2 Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3782-3793.	5.4	81
8	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
9	Efficient Exploration of Chemical Space with Docking and Deep Learning. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7106-7119.	5.3	75
10	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
11	Accelerating drug discovery through tight integration of expert molecular design and predictive scoring. <i>Current Opinion in Structural Biology</i> , 2017, 43, 38-44.	5.7	62
12	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
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	Free Energy Perturbation Calculations of the Thermodynamics of Protein Side-Chain Mutations. <i>Journal of Molecular Biology</i> , 2017, 429, 923-929.	4.2	34
15	Is Structure-Based Drug Design Ready for Selectivity Optimization?. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6211-6227.	5.4	25
16	Application of Free Energy Perturbation (FEP+) to Understanding Ligand Selectivity: A Case Study to Assess Selectivity Between Pairs of Phosphodiesterases (PDEs). <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2729-2740.	5.4	20
17	Noncovalent inhibitors reveal BTK gatekeeper and auto-inhibitory residues that control its transforming activity. <i>JCI Insight</i> , 2019, 4, .	5.0	17
18	Exploring the Activity Profile of TbrPDEB1 and hPDE4 Inhibitors Using Free Energy Perturbation. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 904-910.	2.8	1