

David W Wright

List of Publications by Year in descending order

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35
papers

924
citations

567281

15
h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

1363
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensemble Simulations and Experimental Free Energy Distributions: Evaluation and Characterization of Isoxazole Amides as SMYD3 Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 2561-2570.	5.4	6
2	The performance of ensemble-based free energy protocols in computing binding affinities to ROS1 kinase. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
3	Building Confidence in Simulation: Applications of EasyWVUQ. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900246.	2.8	21
4	Hit-to-lead and lead optimization binding free energy calculations for G protein-coupled receptors. <i>Interface Focus</i> , 2020, 10, 20190128.	3.0	11
5	Application of the ESMACS Binding Free Energy Protocol to a Multi-€ Binding Site Lactate Dehydrogenase A Ligand Dataset. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900194.	2.8	9
6	EasyWVUQ: A Library for Verification, Validation and Uncertainty Quantification in High Performance Computing. <i>Journal of Open Research Software</i> , 2020, 8, 11.	5.9	34
7	Introducing VECMAtk - Verification, Validation and Uncertainty Quantification for Multiscale and HPC Simulations. <i>Lecture Notes in Computer Science</i> , 2019, , 479-492.	1.3	14
8	Atomistic Modeling of Scattering Curves for Human IgG1/4 Reveals New Structure-Function Insights. <i>Biophysical Journal</i> , 2019, 117, 2101-2119.	0.5	7
9	Application of ESMACS binding free energy protocols to diverse datasets: Bromodomain-containing protein 4. <i>Scientific Reports</i> , 2019, 9, 6017.	3.3	18
10	Concurrent and Adaptive Extreme Scale Binding Free Energy Calculations. , 2018, , .		7
11	High-throughput binding affinity calculations at extreme scales. <i>BMC Bioinformatics</i> , 2018, 19, 482.	2.6	14
12	Enabling Trade-offs Between Accuracy and Computational Cost: Adaptive Algorithms to Reduce Time to Clinical Insight. , 2018, , .		5
13	Non-linearity of the collagen triple helix in solution and implications for collagen function. <i>Biochemical Journal</i> , 2017, 474, 2203-2217.	3.7	21
14	Combined Monte Carlo/torsion-angle molecular dynamics for ensemble modeling of proteins, nucleic acids and carbohydrates. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 73, 179-190.	2.4	14
15	Flexibility in Mannan-Binding Lectin-Associated Serine Proteases-1 and -2 Provides Insight on Lectin Pathway Activation. <i>Structure</i> , 2017, 25, 364-375.	3.3	10
16	An Ensemble-Based Protocol for the Computational Prediction of Helix-€ Helix Interactions in G Protein-Coupled Receptors using Coarse-Grained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2254-2270.	5.3	27
17	Rapid, Accurate, Precise, and Reliable Relative Free Energy Prediction Using Ensemble Based Thermodynamic Integration. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 210-222.	5.3	101
18	Domain structure of human complement C4b extends with increasing NaCl concentration: implications for its regulatory mechanism. <i>Biochemical Journal</i> , 2016, 473, 4473-4491.	3.7	4

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19	Atomistic modelling of scattering data in the Collaborative Computational Project for Small Angle Scattering (CCP-SAS). <i>Journal of Applied Crystallography</i> , 2016, 49, 1861-1875.	4.5	67
20	The solution structures of native and patient monomeric human IgA1 reveal asymmetric extended structures: implications for function and IgAN disease. <i>Biochemical Journal</i> , 2015, 471, 167-185.	3.7	22
21	Rapid, Precise, and Reproducible Prediction of Peptide-MHC Binding Affinities from Molecular Dynamics That Correlate Well with Experiment. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3346-3356.	5.3	122
22	Structure, Dynamics, and Function of the Hammerhead Ribozyme in Bulk Water and at a Clay Mineral Surface from Replica Exchange Molecular Dynamics. <i>Langmuir</i> , 2015, 31, 2493-2501.	3.5	16
23	Mutation V111I in HIV-2 Reverse Transcriptase Increases the Fitness of the Nucleoside Analogue-Resistant K65R and Q151M Viruses. <i>Journal of Virology</i> , 2015, 89, 833-843.	3.4	15
24	<i>SCT</i> : a suite of programs for comparing atomistic models with small-angle scattering data. <i>Journal of Applied Crystallography</i> , 2015, 48, 953-961.	4.5	30
25	Ten Simple Rules for Effective Computational Research. <i>PLoS Computational Biology</i> , 2014, 10, e1003506.	3.2	47
26	Computing Clinically Relevant Binding Free Energies of HIV-1 Protease Inhibitors. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1228-1241.	5.3	123
27	A Polymorphism at Position 400 in the Connection Subdomain of HIV-1 Reverse Transcriptase Affects Sensitivity to NNRTIs and RNaseH Activity. <i>PLoS ONE</i> , 2013, 8, e74078.	2.5	10
28	Mechanism of Drug Efficacy Within the EGF Receptor Revealed by Microsecond Molecular Dynamics Simulation. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 2394-2400.	4.1	13
29	Thumbs Down for HIV: Domain Level Rearrangements Do Occur in the NNRTI-Bound HIV-1 Reverse Transcriptase. <i>Journal of the American Chemical Society</i> , 2012, 134, 12885-12888.	13.7	22
30	From base pair to bedside: molecular simulation and the translation of genomics to personalized medicine. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 585-598.	6.6	11
31	Global Conformational Dynamics of HIV-1 Reverse Transcriptase Bound to Non-Nucleoside Inhibitors. <i>Biology</i> , 2012, 1, 222-244.	2.8	6
32	Quantized Water Access to the HIV-1 Protease Active Site as a Proposed Mechanism for Cooperative Mutations in Drug Affinity. <i>Biochemistry</i> , 2012, 51, 6487-6489.	2.5	3
33	Resolution of Discordant HIV-1 Protease Resistance Rankings Using Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2636-2649.	5.4	10
34	Towards high-throughput, high-performance computational estimation of binding affinities for patient specific HIV-1 protease sequences. , 2011, , .		0
35	Accurate Ensemble Molecular Dynamics Binding Free Energy Ranking of Multidrug-Resistant HIV-1 Proteases. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 890-905.	5.4	82