

# David L Minh

## List of Publications by Year in descending order

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52  
papers

1,123  
citations

471371

17  
h-index

414303

32  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of the riboflavin cofactor-binding site in the <i>Vibrio cholerae</i> ion-pumping NQR complex: A novel structural motif in redox enzymes. <i>Journal of Biological Chemistry</i> , 2022, 298, 102182.	1.6	0
2	Electrostatics and water occlusion regulate covalently bound flavin mononucleotide cofactors of <i>Vibrio cholerae</i> respiratory complex NQR. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1376-1385.	1.5	3
3	Alchemical Grid Dock (ALGDock): Binding Free Energy Calculations between Flexible Ligands and Rigid Receptors. <i>Journal of Computational Chemistry</i> , 2020, 41, 715-730.	1.5	12
4	On Restraints in End-Point Protein-Ligand Binding Free Energy Calculations. <i>Journal of Computational Chemistry</i> , 2020, 41, 573-586.	1.5	11
5	On the polarization of ligands by proteins. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12044-12057.	1.3	8
6	A Structural Model for Bax <sup>†</sup> -Mediated Activation of Caspase 8-Dependent Apoptosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5476.	1.8	2
7	Robosample: A rigid-body molecular simulation program based on robot mechanics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129616.	1.1	5
8	Implicit ligand theory for relative binding free energies: II. An estimator based on control variates. <i>Journal of Physics Communications</i> , 2020, 4, 115010.	0.5	2
9	On Restraints in End-Point Protein-Ligand Binding Free Energy Calculations. <i>Biophysical Journal</i> , 2019, 116, 47a.	0.2	0
10	Conserved residue His-257 of <i>Vibrio cholerae</i> flavin transferase ApbE plays a critical role in substrate binding and catalysis. <i>Journal of Biological Chemistry</i> , 2019, 294, 13800-13810.	1.6	10
11	Role of Subunit D in Ubiquinone-Binding Site of <i>Vibrio cholerae</i> NQR: Pocket Flexibility and Inhibitor Resistance. <i>ACS Omega</i> , 2019, 4, 19324-19331.	1.6	6
12	Nonequilibrium path-ensemble averages for symmetric protocols. <i>Journal of Chemical Physics</i> , 2019, 151, 194103.	1.2	0
13	Alchemical Grid Dock (ALGDock) calculations in the D3R Grand Challenge 3. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 61-69.	1.3	5
14	Power transformations improve interpolation of grids for molecular mechanics interaction energies. <i>Journal of Computational Chemistry</i> , 2018, 39, 1200-1207.	1.5	2
15	Using the fast fourier transform in binding free energy calculations. <i>Journal of Computational Chemistry</i> , 2018, 39, 621-636.	1.5	19
16	Implicit ligand theory for relative binding free energies. <i>Journal of Chemical Physics</i> , 2018, 148, 104114.	1.2	6
17	Design, Synthesis, and Biological Evaluation of Polyaminocarboxylate Ligand-Based Theranostic Conjugates for Antibody-Targeted Cancer Therapy and Near-Infrared Optical Imaging. <i>ChemMedChem</i> , 2018, 13, 2606-2617.	1.6	7
18	Bayesian analysis of isothermal titration calorimetry for binding thermodynamics. <i>PLoS ONE</i> , 2018, 13, e0203224.	1.1	24

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19	Simple Entropy Terms for End-Point Binding Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6035-6049.	2.3	22
20	Characterization of the <i>Pseudomonas aeruginosa</i> NQR complex, a bacterial proton pump with roles in autopoisoning resistance. <i>Journal of Biological Chemistry</i> , 2018, 293, 15664-15677.	1.6	20
21	Efficiency of Stratification for Ensemble Docking Using Reduced Ensembles. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1915-1925.	2.5	8
22	Identification of the Catalytic Ubiquinone-binding Site of <i>Vibrio cholerae</i> Sodium-dependent NADH Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2017, 292, 3039-3048.	1.6	11
23	Absolute Binding Free Energies between T4 Lysozyme and 141 Small Molecules: Calculations Based on Multiple Rigid Receptor Configurations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2930-2944.	2.3	33
24	Hamiltonian Monte Carlo with Constrained Molecular Dynamics as Gibbs Sampling. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4649-4659.	2.3	3
25	Effects of Catalytic Action and Ligand Binding on Conformational Ensembles of Adenylate Kinase. <i>Biochemistry</i> , 2017, 56, 4559-4567.	1.2	13
26	Intermediate Thermodynamic States Contribute Equally to Free Energy Convergence: A Demonstration with Replica Exchange. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2154-2161.	2.3	12
27	Layer Sampling. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2016, 45, 73-100.	0.6	1
28	Understanding the Hastings Algorithm. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2015, 44, 332-349.	0.6	23
29	Wide-Angle X-Ray Solution Scattering for Protein-Ligand Binding: Multivariate Curve Resolution with Bayesian Confidence Intervals. <i>Biophysical Journal</i> , 2013, 104, 873-883.	0.2	21
30	Steady State Dynamics of Enzyme Catalytic Action in Solution. <i>Biophysical Journal</i> , 2013, 104, 30a.	0.2	0
31	Correction for Nilmeier et al., Nonequilibrium candidate Monte Carlo is an efficient tool for equilibrium simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9665-9665.	3.3	4
32	Comment on "Transient-state fluctuationlike relation for the driving force on a biomolecule". <i>Physical Review E</i> , 2012, 85, 053103.	0.8	1
33	Implicit ligand theory: Rigorous binding free energies and thermodynamic expectations from molecular docking. <i>Journal of Chemical Physics</i> , 2012, 137, 104106.	1.2	23
34	Regenerative Markov Chain Monte Carlo for Any Distribution. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2012, 41, 1745-1760.	0.6	8
35	Density-dependent analysis of nonequilibrium paths improves free energy estimates II. A Feynman-Kac formalism. <i>Journal of Chemical Physics</i> , 2011, 134, 034117.	1.2	3
36	X-ray solution scattering studies of the structural diversity intrinsic to protein ensembles. <i>Biopolymers</i> , 2011, 95, 531-542.	1.2	30

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37	Estimating equilibrium ensemble averages using multiple time slices from driven nonequilibrium processes: Theory and application to free energies, moments, and thermodynamic length in single-molecule pulling experiments. <i>Journal of Chemical Physics</i> , 2011, 134, 024111.	1.2	15
38	Nonequilibrium candidate Monte Carlo is an efficient tool for equilibrium simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1009-18.	3.3	91
39	Optimized replica gas estimation of absolute integrals and partition functions. <i>Physical Review E</i> , 2010, 82, 031132.	0.8	1
40	Method to Predict Crowding Effects by Postprocessing Molecular Dynamics Trajectories: Application to the Flap Dynamics of HIV-1 Protease. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 107-110.	2.1	39
41	Optimal estimators and asymptotic variances for nonequilibrium path-ensemble averages. <i>Journal of Chemical Physics</i> , 2009, 131, 134110.	1.2	48
42	Path integral analysis of Jarzynski's equality: Analytical results. <i>Physical Review E</i> , 2009, 79, 021122.	0.8	18
43	Density-dependent analysis of nonequilibrium paths improves free energy estimates. <i>Journal of Chemical Physics</i> , 2009, 130, 204102.	1.2	6
44	Molecular Crowding Inhibits Intramolecular Breathing Motions in Proteins. <i>Journal of Molecular Biology</i> , 2008, 375, 529-546.	2.0	86
45	Springs and Speeds in Free Energy Reconstruction from Irreversible Single-Molecule Pulling Experiments. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5892-5897.	1.2	33
46	Optimized Free Energies from Bidirectional Single-Molecule Force Spectroscopy. <i>Physical Review Letters</i> , 2008, 100, 180602.	2.9	83
47	Accelerated entropy estimates with accelerated dynamics. <i>Journal of Chemical Physics</i> , 2007, 127, 154105.	1.2	14
48	Remarkable Loop Flexibility in Avian Influenza N1 and Its Implications for Antiviral Drug Design. <i>Journal of the American Chemical Society</i> , 2007, 129, 7764-7765.	6.6	157
49	Multidimensional Potentials of Mean Force from Biased Experiments along a Single Coordinate. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4137-4140.	1.2	14
50	The Influence of Macromolecular Crowding on HIV-1 Protease Internal Dynamics. <i>Journal of the American Chemical Society</i> , 2006, 128, 6006-6007.	6.6	96
51	Free-energy reconstruction from experiments performed under different biasing programs. <i>Physical Review E</i> , 2006, 74, 061120.	0.8	16
52	The Entropic Cost of Protein-Protein Association: A Case Study on Acetylcholinesterase Binding to Fasciculin-2. <i>Biophysical Journal</i> , 2005, 89, L25-L27.	0.2	44