

Ryan L Hayes

List of Publications by Year in descending order

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18
papers

749
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687363

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748
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#	ARTICLE	IF	CITATIONS
1	Addressing Intersite Coupling Unlocks Large Combinatorial Chemical Spaces for Alchemical Free Energy Methods. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 2114-2123.	5.3	7
2	A strategy for proline and glycine mutations to proteins with alchemical free energy calculations. <i>Journal of Computational Chemistry</i> , 2021, 42, 1088-1094.	3.3	12
3	Generalizing the Discrete Gibbs Sampler-Based $\hat{\lambda}$ -Dynamics Approach for Multisite Sampling of Many Ligands. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3895-3907.	5.3	7
4	BLaDE: A Basic Lambda Dynamics Engine for GPU-Accelerated Molecular Dynamics Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6799-6807.	5.3	23
5	Automated, Accurate, and Scalable Relative Protein-Ligand Binding Free-Energy Calculations Using Lambda Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7895-7914.	5.3	43
6	Overcoming Challenging Substituent Perturbations with Multisite $\hat{\lambda}$ -Dynamics: A Case Study Targeting β -Secretase 1. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4875-4880.	4.6	17
7	Structure-Based Model of RNA Pseudoknot Captures Magnesium-Dependent Folding Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1505-1511.	2.6	6
8	CDOCKER and λ -dynamics for prospective prediction in D3R Grand Challenge 2. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 89-102.	2.9	9
9	Approaching protein design with multisite $\hat{\lambda}$ dynamics: Accurate and scalable mutational folding free energies in T4 lysozyme. <i>Protein Science</i> , 2018, 27, 1910-1922.	7.6	26
10	Predicting Binding Free Energies in a Large Combinatorial Chemical Space Using Multisite $\hat{\lambda}$ Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3328-3332.	4.6	28
11	Adaptive Landscape Flattening Accelerates Sampling of Alchemical Space in Multisite $\hat{\lambda}$ Dynamics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3626-3635.	2.6	54
12	Gibbs Sampler-Based $\hat{\lambda}$ -Dynamics and Rao-Blackwell Estimator for Alchemical Free Energy Calculation. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2501-2510.	5.3	33
13	A magnesium-induced triplex pre-organizes the SAM-II riboswitch. <i>PLoS Computational Biology</i> , 2017, 13, e1005406.	3.2	24
14	SMOG 2: A Versatile Software Package for Generating Structure-Based Models. <i>PLoS Computational Biology</i> , 2016, 12, e1004794.	3.2	226
15	Generalized Manning Condensation Model Captures the RNA Ion Atmosphere. <i>Physical Review Letters</i> , 2015, 114, 258105.	7.8	69
16	Reduced Model Captures Mg ²⁺ -RNA Interaction Free Energy of Riboswitches. <i>Biophysical Journal</i> , 2014, 106, 1508-1519.	0.5	46
17	Intercellular Stress Reconstitution from Traction Force Data. <i>Biophysical Journal</i> , 2014, 107, 548-554.	0.5	28
18	Magnesium Fluctuations Modulate RNA Dynamics in the SAM-I Riboswitch. <i>Journal of the American Chemical Society</i> , 2012, 134, 12043-12053.	13.7	91