

Harold W Hatch

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

440
citations

759233

12
h-index

752698

20
g-index

26
all docs

26
docs citations

26
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Natively Unfolded Protein Stability as a Coil-to-Globule Transition in Charge/Hydrophathy Space. <i>Journal of the American Chemical Society</i> , 2008, 130, 9536-9542.	13.7	90
2	Assessing the thermodynamic signatures of hydrophobic hydration for several common water models. <i>Journal of Chemical Physics</i> , 2010, 132, 124504.	3.0	71
3	Computational Study of the Stability of the Miniprotein Trp-Cage, the GB1 \hat{I}^2 -Hairpin, and the AK16 Peptide, under Negative Pressure. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7761-7769.	2.6	37
4	Computational study of trimer self-assembly and fluid phase behavior. <i>Journal of Chemical Physics</i> , 2015, 142, 164901.	3.0	23
5	Self-assembly of trimer colloids: effect of shape and interaction range. <i>Soft Matter</i> , 2016, 12, 4170-4179.	2.7	22
6	Chiral symmetry breaking in a microscopic model with asymmetric autocatalysis and inhibition. <i>Journal of Chemical Physics</i> , 2010, 133, 224502.	3.0	19
7	Assembly of multi-flavored two-dimensional colloidal crystals. <i>Soft Matter</i> , 2017, 13, 5397-5408.	2.7	19
8	Molecular modeling of mechanical stresses on proteins in glassy matrices: Formalism. <i>Journal of Chemical Physics</i> , 2012, 137, 035103.	3.0	16
9	FEASST: Free Energy and Advanced Sampling Simulation Toolkit. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2018, 123, 1-3.	1.2	16
10	Assembly of three-dimensional binary superlattices from multi-flavored particles. <i>Soft Matter</i> , 2018, 14, 6303-6312.	2.7	15
11	Depletion-driven crystallization of cubic colloids sedimented on a surface. <i>Journal of Chemical Physics</i> , 2016, 144, 194902.	3.0	14
12	Predicting structural properties of fluids by thermodynamic extrapolation. <i>Journal of Chemical Physics</i> , 2018, 148, 194105.	3.0	12
13	Extrapolation and interpolation strategies for efficiently estimating structural observables as a function of temperature and density. <i>Journal of Chemical Physics</i> , 2020, 153, 144101.	3.0	12
14	Designing molecular building blocks for the self-assembly of complex porous networks. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 644-653.	3.4	10
15	Evaluating the Effects of Hinge Flexibility on the Solution Structure of Antibodies at Concentrated Conditions. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1663-1674.	3.3	10
16	Communication: Predicting virial coefficients and alchemical transformations by extrapolating Mayer-sampling Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2017, 147, 231102.	3.0	9
17	Monte Carlo simulation of cylinders with short-range attractions. <i>AIP Advances</i> , 2018, 8, 095210.	1.3	9
18	Dynamic arrest of adhesive hard rod dispersions. <i>Soft Matter</i> , 2020, 16, 1279-1286.	2.7	9

#	ARTICLE	IF	CITATIONS
19	Molecular dynamics simulation of trimer self-assembly under shear. <i>Fluid Phase Equilibria</i> , 2017, 440, 87-94.	2.5	8
20	Flat-histogram extrapolation as a useful tool in the age of big data. <i>Molecular Simulation</i> , 2021, 47, 395-407.	2.0	7
21	Improving the efficiency of Monte Carlo simulations of ions using expanded grand canonical ensembles. <i>Journal of Chemical Physics</i> , 2019, 151, 144109.	3.0	4
22	Computational Investigation of Correlations in Adsorbate Entropy for Pure-Silica Zeolite Adsorbents. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16350-16361.	3.1	4
23	A methodology to calculate small-angle scattering profiles of macromolecular solutions from molecular simulations in the grand-canonical ensemble. <i>Journal of Chemical Physics</i> , 2018, 149, 084203.	3.0	2
24	Parallel Prefetching for Canonical Ensemble Monte Carlo Simulations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7191-7198.	2.5	1
25	Comments on "Monte Carlo simulations for water adsorption in porous materials: Best practices and new insights", <i>AIChE Journal</i> , 2022, 68, .	3.6	1
26	Tabular Potentials for Monte Carlo Simulation of Supertoroids with Short-Range Interactions. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2019, 124, 1-11.	1.2	0