

David J Bray

List of Publications by Year in descending order

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18
papers

520
citations

840119

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h-index

839053

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docs citations

18
times ranked

587
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Alkyl Aromatic Hydrocarbons with Dissipative Particle Dynamics. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5351-5361.	1.2	4
2	What can digitisation do for formulated product innovation and development?. <i>Polymer International</i> , 2021, 70, 248-255.	1.6	10
3	Critical Micelle Concentrations in Surfactant Mixtures and Blends by Simulation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5983-5990.	1.2	19
4	<tt>UMMAP</tt>: a statistical analysis software package for molecular modelling. <i>Molecular Simulation</i> , 2020, 46, 308-322.	0.9	12
5	The Role of Chemical Heterogeneity in Surfactant Adsorption at Solid-Liquid Interfaces. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7135-7147.	2.3	8
6	Wax Formation in Linear and Branched Alkanes with Dissipative Particle Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7109-7122.	2.3	11
7	Efficient Algorithm for the Topological Characterization of Worm-like and Branched Micelle Structures from Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4588-4598.	2.3	5
8	Recent advances in particle-based simulation of surfactants. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 48, 137-148.	3.4	34
9	Utilizing Machine Learning for Efficient Parameterization of Coarse Grained Molecular Force Fields. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4278-4288.	2.5	36
10	Micelle Formation in Alkyl Sulfate Surfactants Using Dissipative Particle Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2633-2643.	2.3	80
11	Dissipative particle dynamics: Systematic parametrization using water-octanol partition coefficients. <i>Journal of Chemical Physics</i> , 2017, 147, 094503.	1.2	59
12	Toward a Standard Protocol for Micelle Simulation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6337-6351.	1.2	55
13	An evaluation of noise reduction algorithms for particle-based fluid simulations in multi-scale applications. <i>Journal of Computational Physics</i> , 2016, 325, 380-394.	1.9	14
14	Complete Structure of an Epithelial Keratin Dimer: Implications for Intermediate Filament Assembly. <i>PLoS ONE</i> , 2015, 10, e0132706.	1.1	30
15	The effects of particle morphology on the analysis of discrete particle dispersion using Delaunay tessellation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 54, 37-45.	3.8	13
16	The modelling of the toughening of epoxy polymers via silica nanoparticles: The effects of volume fraction and particle size. <i>Polymer</i> , 2013, 54, 7022-7032.	1.8	106
17	Quantifying Nanoparticle Dispersion by Using The Area Disorder of Delaunay Triangulation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 253-275.	0.5	16
18	Velocity statistics in dissipative, dense granular media. <i>Physical Review E</i> , 2007, 75, 062301.	0.8	8