

Paul E Brumby

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient Random Number Generation Method for Molecular Simulation. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 71-78.	5.4	2
2	Optimal Replica-Exchange Molecular Simulations in Combination with Evolution Strategies. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 6544-6552.	5.4	2
3	Phase Transitions and Hysteresis for a Simple Model Liquid Crystal by Replica-Exchange Monte Carlo Simulations. <i>Molecules</i> , 2021, 26, 1421.	3.8	4
4	The influence of random number generation in dissipative particle dynamics simulations using a cryptographic hash function. <i>PLoS ONE</i> , 2021, 16, e0250593.	2.5	3
5	Mechanism for H ₂ diffusion in sII hydrates by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020, 153, 054706.	3.0	8
6	Cage occupancies, lattice constants, and guest chemical potentials for structure II hydrogen clathrate hydrate from Gibbs ensemble Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2019, 150, 134503.	3.0	19
7	Ordering in clusters of uniaxial anisotropic particles during homogeneous nucleation and growth. <i>Journal of Chemical Physics</i> , 2019, 150, 054903.	3.0	4
8	Modeling of shear stress distribution on mud surface in the subsea sand-mud alternate layer. <i>Journal of Petroleum Science and Engineering</i> , 2018, 160, 531-536.	4.2	0
9	Effect of Central Longitudinal Dipole Interactions on Chiral Liquid-Crystal Phases. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2715.	4.1	5
10	Analysis of three-phase equilibrium conditions for methane hydrate by isometric-isothermal molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2018, 148, 184501.	3.0	16
11	Structure and Interfacial Tension of a Hard-Rod Fluid in Planar Confinement. <i>Langmuir</i> , 2017, 33, 11754-11770.	3.5	22
12	Pore-scale numerical simulation of mud erosion in the subsea sand-mud alternate layer using lattice Boltzmann method. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 62-70.	4.4	4
13	Cage occupancy of methane hydrates from Gibbs ensemble Monte Carlo simulations. <i>Fluid Phase Equilibria</i> , 2016, 413, 242-248.	2.5	36
14	Coupled LBM-DEM Micro-scale Simulations of Cohesive Particle Erosion Due to Shear Flows. <i>Transport in Porous Media</i> , 2015, 109, 43-60.	2.6	22
15	Microscale Numerical Simulation of the Permeability Reduction due to Trapping of Suspended Fine Particles Within Sand Sediments. <i>Transport in Porous Media</i> , 2013, 96, 153-167.	2.6	6
16	Modeling of CO ₂ Hydrate Formation at the Gas-Water Interface in Sand Sediment. <i>Chemical Engineering and Technology</i> , 2012, 35, 1751-1758.	1.5	11
17	Subtleties in the calculation of the pressure and pressure tensor of anisotropic particles from volume-perturbation methods and the apparent asymmetry of the compressive and expansive contributions. <i>Molecular Physics</i> , 2011, 109, 169-189.	1.7	27