Paul E Brumby

List of Publications by Year
in descending order

17	191	1163117	1058476
papers	citations	8	14
		h-index	g-index

17	17	17	269
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cage occupancy of methane hydrates from Gibbs ensemble Monte Carlo simulations. Fluid Phase Equilibria, 2016, 413, 242-248.	2.5	36
2	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. Molecular Physics, 2011, 109, 169-189.	1.7	27
3	Coupled LBMâ€"DEM Micro-scale Simulations of Cohesive Particle Erosion Due to Shear Flows. Transport in Porous Media, 2015, 109, 43-60.	2.6	22
4	Structure and Interfacial Tension of a Hard-Rod Fluid in Planar Confinement. Langmuir, 2017, 33, 11754-11770.	3.5	22
5	Cage occupancies, lattice constants, and guest chemical potentials for structure II hydrogen clathrate hydrate from Gibbs ensemble Monte Carlo simulations. Journal of Chemical Physics, 2019, 150, 134503.	3.0	19
6	Analysis of three-phase equilibrium conditions for methane hydrate by isometric-isothermal molecular dynamics simulations. Journal of Chemical Physics, 2018, 148, 184501.	3.0	16
7	Modeling of CO$_2$â€"Hydrate Formation at the Gasâ€"Water Interface in Sand Sediment. Chemical Engineering and Technology, 2012, 35, 1751-1758.	1.5	11
8	Mechanism for H2 diffusion in sII hydrates by molecular dynamics simulations. Journal of Chemical Physics, 2020, 153, 054706.	3.0	8
9	Microscale Numerical Simulation of the Permeability Reduction due to Trapping of Suspended Fine Particles Within Sand Sediments. Transport in Porous Media, 2013, 96, 153-167.	2.6	6
10	Effect of Central Longitudinal Dipole Interactions on Chiral Liquid-Crystal Phases. International Journal of Molecular Sciences, 2018, 19, 2715.	4.1	5
11	Pore-scale numerical simulation of mud erosion in the subsea sandâ€"mud alternate layer using lattice Boltzmann method. Journal of Natural Gas Science and Engineering, 2016, 36, 62-70.	4.4	4
12	Ordering in clusters of uniaxial anisotropic particles during homogeneous nucleation and growth. Journal of Chemical Physics, 2019, 150, 054903.	3.0	4
13	Phase Transitions and Hysteresis for a Simple Model Liquid Crystal by Replica-Exchange Monte Carlo Simulations. Molecules, 2021, 26, 1421.	3.8	4
14	The influence of random number generation in dissipative particle dynamics simulations using a cryptographic hash function. PLoS ONE, 2021, 16, e0250593.	2.5	3
15	An Efficient Random Number Generation Method for Molecular Simulation. Journal of Chemical Information and Modeling, 2022, 62, 71-78.	5.4	2
16	Optimal Replica-Exchange Molecular Simulations in Combination with Evolution Strategies. Journal of Chemical Information and Modeling, 2022, 62, 6544-6552.	5.4	2
17	Modeling of shear stress distribution on mud surface in the subsea sand-mud alternate layer. Journal of Petroleum Science and Engineering, 2018, 160, 531-536.	4.2	0