Brian H Morrow

List of Publications by Year
in descending order

29	990	471509 17	526287 27
papers	citations	h-index	g-index

29	29	29	1511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interfacial Properties of Linear Alkane/Nitrogen Binary Mixtures: Molecular Dynamics Vaporâ€“Liquid Equilibrium Simulations. Journal of Physical Chemistry B, 2022, 126, 4379-4388.	2.6	1
2	Evaluating the Ability of Selected Force Fields to Simulate Hydrocarbons as a Function of Temperature and Pressure Using Molecular Dynamics. Energy & Fuels, 2021, 35, 3742-3752.	5.1	5
3	Thermophysical Properties of Two-Component Mixtures of n-Nonylbenzene or 1,3,5-Triisopropylbenzene with n-Hexadecane or n-Dodecane at 0.1 MPa: Experimentally Measured Densities, Viscosities, and Speeds of Sound and Molecular Packing Modeled Using Molecular Dynamics Simulations. Journal of Chemical & Engineering Data, 2021, 66, 1442-1456.	1.9	3
4	Systematic examination of the links between composition and physical properties in surrogate fuel mixtures using molecular dynamics. Fuel, 2020, 261, 116247.	6.4	18
5	Binary Mixtures of Aromatic Compounds (n-Propylbenzene, 1,3,5-Trimethylbenzene, and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Moduli, Surface Tensions, and Flash Points at 0.1 MPa. Journal of Chemical & Engineering Data, 2020, 65, 2625-2641.	1.9	13
6	Vaporâ€“Liquid Equilibrium Simulations of Hydrocarbons Using Molecular Dynamics with Long-Range Lennard-Jones Interactions. Energy & Fuels, 2019, 33, 848-858.	5.1	27
7	Thermophysical Properties of Binary Mixtures of n-Dodecane with n-Alkylcyclohexanes: Experimental Measurements and Molecular Dynamics Simulations. Journal of Chemical & Engineering Data, 2019, 64, 1550-1568.	1.9	21
8	Review of force fields and intermolecular potentials used in atomistic computational materials research. Applied Physics Reviews, 2018, 5, 031104.	11.3	101
9	Impact of Molecular Structure on Properties of n-Hexadecane and Alkylbenzene Binary Mixtures. Journal of Physical Chemistry B, 2018, 122, 6595-6603.	2.6	18
10	Toward Understanding the Environmental Control of Hydrogel Film Properties: How Salt Modulates the Flexibility of Chitosan Chains. Macromolecules, 2017, 50, 5946-5952.	4.8	35
11	Elucidating the Properties of Surrogate Fuel Mixtures Using Molecular Dynamics. Energy & Fuels, 2016, 30, 784-795.	5.1	16
12	Titration Properties and pH-Dependent Aggregation of Chitosan. Biophysical Journal, 2015, 108, 488a.	0.5	2
13	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. Polymers, 2015, 7, 1-46.	4.5	87
14	pH-Responsive Self-Assembly of Polysaccharide through a Rugged Energy Landscape. Journal of the American Chemical Society, 2015, 137, 13024-13030.	13.7	89
15	Predicting proton titration in cationic micelle and bilayer environments. Journal of Chemical Physics, 2014, 141, 084714.	3.0	7
16	Recent development and application of constant pH molecular dynamics. Molecular Simulation, 2014, 40, 830-838.	2.0	102
17	All Atom Molecular Dynamics Simulations of pH Dependent Surfactants. Biophysical Journal, 2013, 104, 664a.	0.5	0
18	Self-Assembly and Bilayerâ€“Micelle Transition of Fatty Acids Studied by Replica-Exchange Constant pH Molecular Dynamics. Langmuir, 2013, 29, 14823-14830.	3.5	42

#	Article	IF	Citations
19	Atomistic simulations of pH-dependent self-assembly of micelle and bilayer from fatty acids. Journal of Chemical Physics, 2012, 137, 194902.	3.0	45
20	Nitric oxide coupling mediated by iron porphyrins: the Nâ€“N bond formation step is facilitated by electrons and a proton. Chemical Communications, 2012, 48, 9041.	4.1	14
21	Diarylcyclopentendione Metabolite Obtained from a Preussia typharum Isolate Procured Using an Unconventional Cultivation Approach. Journal of Natural Products, 2012, 75, 1819-1823.	3.0	33
22	CO Adsorption on Noble Metal Clusters: Local Environment Effects. Journal of Physical Chemistry C, 2011, 115, 5637-5647.	3.1	45
23	Simulating pH Titration of a Single Surfactant in Ionic and Nonionic Surfactant Micelles. Journal of Physical Chemistry B, 2011, 115, 14980-14990.	2.6	25
24	Supported bimetallic Pt-Au nanoparticles: Structural features predicted by molecular dynamics simulations. Physical Review B, 2010, 81, .	3.2	34
25	Stabilization of Aqueous Carbon Nanotube Dispersions Using Surfactants: Insights from Molecular Dynamics Simulations. ACS Nano, 2010, 4, 7193-7204.	14.6	93
26	Assessing how metalâ€“carbon interactions affect the structure of supported platinum nanoparticles. Molecular Simulation, 2009, 35, 795-803.	2.0	18
27	Platinum nanoparticles on carbonaceous materials: the effect of support geometry on nanoparticle mobility, morphology, and melting. Nanotechnology, 2008, 19, 195711.	2.6	40
28	Morphology and Diffusion Mechanism of Platinum Nanoparticles on Carbon Nanotube Bundles. Journal of Physical Chemistry C, 2007, 111, 17905-17913.	3.1	43
29	Densities, Speeds of Sound, and Viscosities of Binary Mixtures of ann-Alkylcyclohexane (n-Propyl-,n-Pentyl-,n-Hexyl-,n-Heptyl,n-Octyl-,n-Nonyl-,n-Decyl-,) Tj1 EMQq1 1 0.78431 r		