Monica H Lamm

List of Publications by Year
in descending order

40 papers	1,428 citations	331670 21 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	1813 citing authors

#	Article	IF	Citations
1	Tethered Nano Building Blocks:Â Toward a Conceptual Framework for Nanoparticle Self-Assembly. Nano Letters, 2003, 3, 1341-1346.	9.1	311
2	Estimating Error in Diffusion Coefficients Derived from Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2015, 11, 4586-4592.	5.3	107
3	Solidâ€“liquid phase equilibrium for binary Lennard-Jones mixtures. Journal of Chemical Physics, 1999, 110, 11433-11444.	3.0	73
4	Simulated Assembly of Nanostructured Organic/Inorganic Networks. Nano Letters, 2003, 3, 989-994.	9.1	69
5	Study strategies and beliefs about learning as a function of academic achievement and achievement goals. Memory, 2018, 26, 683-690.	1.7	69
6	Molecular dynamics simulation of mixed matrix nanocomposites containing polyimide and polyhedral oligomeric silsesquioxane (POSS). Polymer, 2009, 50, 1324-1332.	3.8	65
7	A biophysical perspective of understanding nanoparticles at large. Physical Chemistry Chemical Physics, 2011, 13, 7273.	2.8	63
8	A Classroom Study on the Relationship Between Student Achievement and Retrieval-Enhanced Learning. Educational Psychology Review, 2016, 28, 353-375.	8.4	55
9	Nanoparticle Ordering via Functionalized Block Copolymers in Solution. ACS Nano, 2008, 2, 1259-1265.	14.6	44
10	Computer Simulation of Architectural and Molecular Weight Effects on the Assembly of Amphiphilic Linearâ˜Dendritic Block Copolymers in Solution. Langmuir, 2008, 24, 3030-3036.	3.5	38
11	Monte Carlo simulations of complete phase diagrams for binary Lennardâ€“Jones mixtures. Fluid Phase Equilibria, 2001, 182, 37-46.	2.5	37
12	Molecular simulation of complete phase diagrams for binary mixtures. AICHE Journal, 2001, 47, 1664-1675.	3.6	37
13	Modeling Styreneâ˜Styrene Interactionsâ€. Journal of Physical Chemistry A, 2006, 110, 519-525.	2.5	36
14	Fluorescence resonance energy transfer between phenanthrene and PAMAM dendrimers. Physical Chemistry Chemical Physics, 2010, 12, 9285.	2.8	35
15	Effect of Terminal Group Modification on the Solution Properties of Dendrimers:â€‰ A Molecular Dynamics Simulation Study. Macromolecules, 2006, 39, 4247-4255.	4.8	34
16	Evaluation of coarse-grained mapping schemes for polysaccharide chains in cellulose. Journal of Chemical Physics, 2013, 138, 214108.	3.0	27
17	Engineering Thinking in Prekindergarten Children: A Systematic Literature Review. Journal of Engineering Education, 2017, 106, 454-474.	3.0	25
18	Pre-engineering Thinking and the Engineering Habits of Mind in Preschool Classroom. Early Childhood Education Journal, 2019, 47, 187-198.	2.7	25

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19	A coarse-graining approach for molecular simulation that retains the dynamics of the all-atom reference system by implementing hydrodynamic interactions. Journal of Chemical Physics, 2014, 141, 174107.	3.0	23
20	Equilibria between solid, liquid, and vapor phases in binary Lennardâ€“Jones mixtures. Fluid Phase Equilibria, 2002, 194-197, 197-206.	2.5	22
21	Ab Initio Study of Molecular Interactions in Cellulose Îł. Journal of Physical Chemistry B, 2013, 117, 10430-10443.	2.6	22
22	Studentsâ€™ Use of Optional Online Reviews and Its Relationship to Summative Assessment Outcomes in Introductory Biology. CBE Life Sciences Education, 2017, 16, ar23.	2.3	18
23	Biomolecule-directed assembly of nanoscale building blocks studied via lattice Monte Carlo simulation. Journal of Chemical Physics, 2004, 121, 3919-3929.	3.0	17
24	Prequestions do not enhance the benefits of retrieval in a STEM classroom. Cognitive Research: Principles and Implications, 2017, 2, 42.	2.0	17
25	Dendrimerâ€“Fullerenol Soft-Condensed Nanoassembly. Journal of Physical Chemistry C, 2012, 116, 15775-15781.	3.1	16
26	Computational and Experimental Analyses Converge to Reveal a Coherent Yet Malleable Aptamer Structure That Controls Chemical Reactivity. Journal of the American Chemical Society, 2009, 131, 14747-14755.	13.7	14
27	Molecular dynamics simulation of fractal aggregate diffusion. Physical Review E, 2010, 82, 051402.	2.1	14
28	Multiscale Modeling for Host-Guest Chemistry of Dendrimers in Solution. Polymers, 2012, 4, 463-485.	4.5	14
29	Investigating the malleability of RNA aptamers. Methods, 2013, 63, 178-187.	3.8	14
30	Effect of pressure on the complete phase behavior of binary mixtures. AICHE Journal, 2004, 50, 215-225.	3.6	13
31	Cell Trafficking of Carbon Nanotubes Based on Fluorescence Detection. Methods in Molecular Biology, 2010, 625, 135-151.	0.9	13
32	An adaptable pentaloop defines a robust neomycin-B RNA aptamer with conditional ligand-bound structures. Rna, 2014, 20, 815-824.	3.5	12
33	A coarse-grained model for Î²-d-glucose based on force matching. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	10
34	Sampling Performance of Multiple Independent Molecular Dynamics Simulations of an RNA Aptamer. ACS Omega, 2020, 5, 20187-20201.	3.5	10
35	Team-Based Learning in Engineering Classrooms: Feedback Form and Content Adds Value to the Learning Experience. , 0, , .		8
36	Molecular dynamics simulations on the Tre1 G protein-coupled receptor: exploring the role of the arginine of the NRY motif in Tre1 structure. BMC Structural Biology, 2013, 13, 15.	2.3	6

#	Article	IF	Citations
37	Common Secondary and Tertiary Structural Features of Aptamerâ€“Ligand Interaction Shared by RNA Aptamers with Different Primary Sequences. Molecules, 2019, 24, 4535.	3.8	6
38	Reintroducing explicit solvent to a solvent-free coarse-grained model. Physical Review E, 2011, 84, 025701.	2.1	5
39	Coarse-Grained Intermolecular Potentials Derived From The Effective Fragment Potential: Application To Water, Benzene, And Carbon Tetrachloride. Challenges and Advances in Computational Chemistry and Physics, 2009, , 197-218.	0.6	3
40	Measuring the Effectiveness of Team-Based Leaning Outcomes in a Human Factors Course. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 337-341.	0.3	1