Sharon M Loverde

List of Publications by Year
in descending order

29 papers	810 citations	567281 15 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1310 citing authors

#	Article	IF	Citations
1	Nanoparticle Shape Improves Delivery: Rational Coarse Grain Molecular Dynamics (rCGâ€MD) of Taxol in Wormâ€Like PEGâ€PCL Micelles. Advanced Materials, 2012, 24, 3823-3830.	21.0	136
2	Curvature-Coupled Hydration of Semicrystalline Polymer Amphiphiles Yields flexible Worm Micelles but Favors Rigid Vesicles: Polycaprolactone-Based Block Copolymers. Macromolecules, 2010, 43, 9736-9746.	4.8	111
3	Curvature-driven molecular demixing in the budding and breakup of mixed component worm-like micelles. Soft Matter, 2010, 6, 1419.	2.7	59
4	Molecular Simulation of the Transport of Drugs across Model Membranes. Journal of Physical Chemistry Letters, 2014, 5, 1659-1665.	4.6	52
5	TCR Triggering by pMHC Ligands Tethered on Surfaces via Poly(Ethylene Glycol) Depends on Polymer Length. PLoS ONE, 2014, 9, e112292.	2.5	46
6	Ï€â€“Ï€ Stacking Mediated Chirality in Functional Supramolecular Filaments. Macromolecules, 2016, 49, 994-1001.	4.8	41
7	Charged Particles on Surfaces: Coexistence of Dilute Phases and Periodic Structures at Interfaces. Physical Review Letters, 2007, 98, 237802.	7.8	40
8	Molecular simulations of peptide amphiphiles. Organic and Biomolecular Chemistry, 2017, 15, 7993-8005.	2.8	38
9	Molecular Simulation of the Concentration-Dependent Interaction of Hydrophobic Drugs with Model Cellular Membranes. Journal of Physical Chemistry B, 2014, 118, 11965-11972.	2.6	33
10	Competing interactions in two dimensional Coulomb systems: Surface charge heterogeneities in coassembled cationic-anionic incompatible mixtures. Journal of Chemical Physics, 2006, 124, 144702.	3.0	27
11	Probing the structure of PEGylated-lipid assemblies by coarse-grained molecular dynamics. Soft Matter, 2013, 9, 11549.	2.7	27
12	Thermodynamics of reversibly associating ideal chains. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 796-804.	2.1	24
13	Molecular Mechanism for the Role of the H2A and H2B Histone Tails in Nucleosome Repositioning. Journal of Physical Chemistry B, 2018, 122, 11827-11840.	2.6	22
14	Computer simulation of polymer and biopolymer self-assembly for drug delivery. Molecular Simulation, 2014, 40, 794-801.	2.0	19
15	Molecular simulation of the shape deformation of a polymersome. Soft Matter, 2020, 16, 3234-3244.	2.7	18
16	Asymmetric charge patterning on surfaces and interfaces: Formation of hexagonal domains. Journal of Chemical Physics, 2007, 127, 164707.	3.0	16
17	Coarse-grained molecular dynamics studies of the structure and stability of peptide-based drug amphiphile filaments. Soft Matter, 2017, 13, 7721-7730.	2.7	16
18	Asymmetric breathing motions of nucleosomal DNA and the role of histone tails. Journal of Chemical Physics, 2017, 147, 065101.	3.0	14

#	Article	IF	Citations
19	Effect of Nucleotide State on the Protofilament Conformation of Tubulin Octamers. Journal of Physical Chemistry B, 2018, 122, 6164-6178.	2.6	10
20	Rational Coarse-Grained Molecular Dynamics Simulations of Supramolecular Anticancer Nanotubes. Journal of Physical Chemistry B, 2019, 123, 10582-10593.	2.6	9
21	Characterisation of the hydrophobic collapse of polystyrene in water using free energy techniques. Molecular Simulation, 2017, 43, 234-241.	2.0	8
22	Molecular Dynamics Simulations of Supramolecular Anticancer Nanotubes. Journal of Chemical Information and Modeling, 2018, 58, 1164-1168.	5.4	8
23	Glassy worm-like micelles in solvent and shear mediated shape transitions. Soft Matter, 2018, 14, 4194-4203.	2.7	6
24	Isomeric control of the mechanical properties of supramolecular filament hydrogels. Biomaterials Science, 2018, 6, 216-224.	5.4	6
25	Interaction of Camptothecin with Model Cellular Membranes. Journal of Chemical Theory and Computation, 2020, 16, 3373-3384.	5.3	5
26	Domain Formation in Charged Polymer Vesicles. Macromolecules, 2021, 54, 9258-9267.	4.8	5
27	Molecular dynamics simulations of the interaction of phospholipid bilayers with polycaprolactone. Molecular Simulation, 2019, 45, 859-867.	2.0	4
28	The interaction of supramolecular anticancer drug amphiphiles with phospholipid membranes. Nanoscale Advances, 2021, 3, 370-382.	4.6	3
29	Degradable Poly(ethylene oxide)-block-polycaprolactone Worm-like Micelles: From Phase Transitions and Molecular Simulation to Persistent Circulation and Shrinking Tumors. ACS Symposium Series, 2012, , 255-285.	0.5	0