James J Mccarty

List of Publications by Year
in descending order

23	1,545	393982	642321
papers	citations	19 h-index	23 g-index

26	26	26	1410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimerâ€™s Disease, Parkinsonâ€™s Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. Chemical Reviews, 2021, 121, 2545-2647.	23.0	406
2	Complete Phase Diagram for Liquidâ€“Liquid Phase Separation of Intrinsically Disordered Proteins. Journal of Physical Chemistry Letters, 2019, 10, 1644-1652.	2.1	204
3	Narrow equilibrium window for complex coacervation of tau and RNA under cellular conditions. ELife, 2019, 8, .	2.8	111
4	A variational conformational dynamics approach to the selection of collective variables in metadynamics. Journal of Chemical Physics, 2017, 147, 204109.	1.2	101
5	Molecular design of self-coacervation phenomena in block polyampholytes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8224-8232.	3.3	88
6	An analytical coarse-graining method which preserves the free energy, structural correlations, and thermodynamic state of polymer melts from the atomistic to the mesoscale. Journal of Chemical Physics, 2014, 140, 204913.	1.2	65
7	Heightened Cold-Denaturation of Proteins at the Iceâ€“Water Interface. Journal of the American Chemical Society, 2020, 142, 5722-5730.	6.6	59
8	The proline-rich domain promotes Tau liquidâ€“liquid phase separation in cells. Journal of Cell Biology, 2020, 219, .	2.3	58
9	Thermodynamic Consistency in Variable-Level Coarse Graining of Polymeric Liquids. Physical Review Letters, 2012, 109, 168301.	2.9	55
10	Small ion effects on self-coacervation phenomena in block polyampholytes. Journal of Chemical Physics, 2019, 151, 034904.	1.2	46
11	Analytical rescaling of polymer dynamics from mesoscale simulations. Journal of Chemical Physics, 2010, 132, 224903.	1.2	44
12	Multiscale Modeling of Coarse-Grained Macromolecular Liquids. Journal of Physical Chemistry B, 2009, 113, 11876-11886.	1.2	36
13	Effective potentials for representing polymers in melts as chains of interacting soft particles. Journal of Chemical Physics, 2013, 139, 124906.	1.2	36
14	Thermodynamic Consistency between Analytic Integral Equation Theory and Coarse-Grained Molecular Dynamics Simulations of Homopolymer Melts. Macromolecules, 2012, 45, 8482-8493.	2.2	35
15	Variationally Optimized Free-Energy Flooding for Rate Calculation. Physical Review Letters, 2015, 115, 070601.	2.9	35
16	Effect of Surfactants on Surface-Induced Denaturation of Proteins: Evidence of an Orientation-Dependent Mechanism. Journal of Physical Chemistry B, 2018, 122, 11390-11399.	1.2	33
17	Accuracy, Transferability, and Efficiency of Coarse-Grained Models of Molecular Liquids. Journal of Physical Chemistry B, 2018, 122, 10257-10278.	1.2	26
18	Effective Soft-Core Potentials and Mesoscopic Simulations of Binary Polymer Mixtures. Macromolecules, 2010, 43, 3964-3979.	2.2	25

#	Article	IF	Citations
19	Variational Flooding Study of a S_N2 Reaction. Journal of Physical Chemistry Letters, 2017, 8, 580-583.	2.1	23
20	Searching for Entropically Stabilized Phases: The Case of Silver Iodide. Journal of Physical Chemistry C, 2018, 122, 1786-1790.	1.5	18
21	Insight Into Seeded Tau Fibril Growth From Molecular Dynamics Simulation of the Alzheimerâ€™s Disease Protofibril Core. Frontiers in Molecular Biosciences, 2021, 8, 624302.	1.6	17
22	Bespoke Bias for Obtaining Free Energy Differences within Variationally Enhanced Sampling. Journal of Chemical Theory and Computation, 2016, 12, 2162-2169.	2.3	11
23	Fast equilibration of coarse-grained polymeric liquids. Journal of Computational Science, 2015, 9, 33-38.	1.5	8