Jeremy C Palmer

List of Publications by Year
in descending order

56	2,207	279487 23	223531 46
papers	citations	h-index	g-index

56	56	56	2202
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precrystallization solute assemblies and crystal symmetry. Faraday Discussions, 2022, 235, 307-321.	1.6	2
2	Signatures of sluggish dynamics and local structural ordering during ice nucleation. Journal of Chemical Physics, 2022, 156, 114502.	1.2	7
3	Spatiotemporal Coke Coupling Enhances para-Xylene Selectivity in Highly Stable MCM-22 Catalysts. Journal of the American Chemical Society, 2022, 144, 7861-7870.	6.6	19
4	Nanoparticle dispersion in porous media: Effects of attractive particle-media interactions. Physical Review E, 2022, 105, .	0.8	1
5	Nanoparticle dispersion in porous media: Effects of hydrodynamic interactions and dimensionality. AICHE Journal, 2021, 67, e17147.	1.8	6
6	A tribute to Keith E. Gubbins. AICHE Journal, 2021, 67, e17187.	1.8	0
7	Keith E. Gubbins: A retrospective. AICHE Journal, 2021, 67, e17191.	1.8	0
8	Openâ€source molecular modeling software in chemical engineering focusing on the Molecular Simulation Design Framework. AICHE Journal, 2021, 67, e17206.	1.8	16
9	Nanoparticle dispersion in porous media: Effects of array geometry and flow orientation. Physical Review E, 2021, 104, 015102.	0.8	4
10	Nanoparticle dynamics in semidilute polymer solutions: Rings versus linear chains. Journal of Rheology, 2021, 65, 745-755.	1.3	5
11	Factors controlling the molecular modification of one-dimensional zeolites. Physical Chemistry Chemical Physics, 2021, 23, 18610-18617.	1.3	5
12	Solvent Structure and Dynamics near the Surfaces of Î²-Hematin Crystals. Journal of Physical Chemistry B, 2021, 125, 11264-11274.	1.2	2
13	How to Identify the Crystal Growth Unit. Israel Journal of Chemistry, 2021, 61, 818-827.	1.0	5
14	Acidic Polysaccharides as Green Alternatives for Barite Scale Dissolution. ACS Applied Materials & Interfaces, 2020, 12, 55434-55443.	4.0	11
15	Finned zeolite catalysts. Nature Materials, 2020, 19, 1074-1080.	13.3	116
16	Olanzapine crystal symmetry originates in preformed centrosymmetric solute dimers. Nature Chemistry, 2020, 12, 914-920.	6.6	26
17	Dynamics of polydisperse hard-spheres under strong confinement. Molecular Physics, 2020, 118, e1728407.	0.8	5
18	A computational investigation of the thermodynamics of the Stillinger-Weber family of models at supercooled conditions. Molecular Physics, 2019, 117, 3254-3268.	0.8	9

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19	Influence of polymer flexibility on nanoparticle dynamics in semidilute solutions. Soft Matter, 2019, 15, 1260-1268.	1.2	27
20	From waterâ€™s ephemeral dance, a new order emerges. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1829-1831.	3.3	4
21	Thermodynamic analysis of the stability of planar interfaces between coexisting phases and its application to supercooled water. Journal of Chemical Physics, 2019, 150, 224503.	1.2	7
22	Modeling hydrodynamic interactions in soft materials with multiparticle collision dynamics. Current Opinion in Chemical Engineering, 2019, 23, 34-43.	3.8	29
23	Structure Dominates Localization of Tracers within Aging Nanoparticle Glasses. Journal of Physical Chemistry Letters, 2019, 10, 1784-1789.	2.1	13
24	Molecular Modifiers Suppress Nonclassical Pathways of Zeolite Crystallization. Chemistry of Materials, 2019, 31, 3228-3238.	3.2	39
25	Tracer transport in attractive and repulsive supercooled liquids and glasses. Journal of Chemical Physics, 2019, 151, 194501.	1.2	9
26	Crystallization of Mordenite Platelets using Cooperative Organic Structure-Directing Agents. Journal of the American Chemical Society, 2019, 141, 20155-20165.	6.6	42
27	Coupling of Nanoparticle Dynamics to Polymer Center-of-Mass Motion in Semidilute Polymer Solutions. Macromolecules, 2018, 51, 1865-1872.	2.2	32
28	Hybrid Monte Carlo with LAMMPS. Journal of Theoretical and Computational Chemistry, 2018, 17, 1840002.	1.8	17
29	Comment on â€œThe putative liquid-liquid transition is a liquid-solid transition in atomistic models of waterâ€•[I and II: J. Chem. Phys. 135, 134503 (2011); J. Chem. Phys. 138, 214504 (2013)]. Journal of Chemical Physics, 2018, 148, 137101.	1.2	58
30	Cooperative effects of inorganic and organic structure-directing agents in ZSM-5 crystallization. Molecular Systems Design and Engineering, 2018, 3, 159-170.	1.7	51
31	Fluctuations near the liquidâ€“liquid transition in a model of silica. Physical Chemistry Chemical Physics, 2018, 20, 25195-25202.	1.3	8
32	Tracer Transport Probes Relaxation and Structure of Attractive and Repulsive Glassy Liquids. Journal of Physical Chemistry Letters, 2018, 9, 3008-3013.	2.1	11
33	Anomalous scattering in supercooled ST2 water. Molecular Physics, 2018, 116, 1953-1964.	0.8	14
34	Structuring of Organic Solvents at Solid Interfaces and Ramifications for Antimalarial Adsorption on Î²-Hematin Crystals. ACS Applied Materials & Interfaces, 2018, 10, 29288-29298.	4.0	6
35	Advances in Computational Studies of the Liquidâ€“Liquid Transition in Water and Water-Like Models. Chemical Reviews, 2018, 118, 9129-9151.	23.0	152
36	A non-equilibrium molecular dynamics study of methane transport in clay nano-pores. Microporous and Mesoporous Materials, 2017, 249, 88-96.	2.2	32

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37	Molecular modeling and structural characterization of a high glycineâ€“tyrosine hair keratin associated protein. Physical Chemistry Chemical Physics, 2017, 19, 8575-8583.	1.3	16
38	Liquidâ€“liquid phase transition in an ionic model of silica. Journal of Chemical Physics, 2017, 146, 234503.	1.2	29
39	Computational investigation of cold denaturation in the Trp-cage miniprotein. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8991-8996.	3.3	48
40	Density and bond-orientational relaxations in supercooled water. Molecular Physics, 2016, 114, 2580-2585.	0.8	14
41	Palmer et al. reply. Nature, 2016, 531, E2-E3.	13.7	17
42	A Computational Study of the Effect of Matrix Structural Order on Water Sorption by Trp-Cage Miniproteins. Journal of Physical Chemistry B, 2015, 119, 1847-1856.	1.2	9
43	Recent advances in molecular simulation: A chemical engineering perspective. AICHE Journal, 2015, 61, 370-383.	1.8	53
44	Two-state thermodynamics of the ST2 model for supercooled water. Journal of Chemical Physics, 2014, 140, 104502.	1.2	96
45	Metastable liquidâ€“liquid transition in a molecular model of water. Nature, 2014, 510, 385-388.	13.7	431
46	The liquidâ€“liquid transition in supercooled ST2 water: a comparison between umbrella sampling and well-tempered metadynamics. Faraday Discussions, 2013, 167, 77.	1.6	85
47	On the molecular origin of high-pressure effects in nanoconfinement: The role of surface chemistry and roughness. Journal of Chemical Physics, 2013, 139, 144701.	1.2	57
48	Analysis of the solvation structure of rubidium bromide under nanoconfinement. Molecular Simulation, 2012, 38, 1209-1220.	0.9	3
49	Liquid-liquid transition in ST2 water. Journal of Chemical Physics, 2012, 137, 214505.	1.2	144
50	Computer Simulation of Water Sorption on Flexible Protein Crystals. Journal of Physical Chemistry Letters, 2012, 3, 2713-2718.	2.1	16
51	Adsorptive behavior of CO2, CH4 and their mixtures in carbon nanospace: a molecular simulation study. Physical Chemistry Chemical Physics, 2011, 13, 3985.	1.3	66
52	Simulating Local Adsorption Isotherms in Structurally Complex Porous Materials: A Direct Assessment of the Slit Pore Model. Journal of Physical Chemistry Letters, 2011, 2, 165-169.	2.1	30
53	Pressure enhancement in carbon nanopores: a major confinement effect. Physical Chemistry Chemical Physics, 2011, 13, 17163-17170.	1.3	124
54	The role of molecular modeling in confined systems: impact and prospects. Physical Chemistry Chemical Physics, 2011, 13, 58-85.	1.3	153

#	Article	IF	Citations
55	Adsorption and diffusion of argon in disordered nanoporous carbons. Adsorption, 2011, 17, 189-199.	1.4	25
56	Liquid-liquid transition in ST2 water. , 0, .		1