

Jeremy C Palmer

List of Publications by Year in descending order

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56
papers

2,207
citations

279487

23
h-index

223531

46
g-index

56
all docs

56
docs citations

56
times ranked

2202
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable liquid-liquid transition in a molecular model of water. <i>Nature</i> , 2014, 510, 385-388.	13.7	431
2	The role of molecular modeling in confined systems: impact and prospects. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 58-85.	1.3	153
3	Advances in Computational Studies of the Liquid-Liquid Transition in Water and Water-Like Models. <i>Chemical Reviews</i> , 2018, 118, 9129-9151.	23.0	152
4	Liquid-liquid transition in ST2 water. <i>Journal of Chemical Physics</i> , 2012, 137, 214505.	1.2	144
5	Pressure enhancement in carbon nanopores: a major confinement effect. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17163-17170.	1.3	124
6	Finned zeolite catalysts. <i>Nature Materials</i> , 2020, 19, 1074-1080.	13.3	116
7	Two-state thermodynamics of the ST2 model for supercooled water. <i>Journal of Chemical Physics</i> , 2014, 140, 104502.	1.2	96
8	The liquid-liquid transition in supercooled ST2 water: a comparison between umbrella sampling and well-tempered metadynamics. <i>Faraday Discussions</i> , 2013, 167, 77.	1.6	85
9	Adsorptive behavior of CO ₂ , CH ₄ and their mixtures in carbon nanospace: a molecular simulation study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3985.	1.3	66
10	Comment on "The putative liquid-liquid transition is a liquid-solid transition in atomistic models of water" [I and II: <i>J. Chem. Phys.</i> 135, 134503 (2011); <i>J. Chem. Phys.</i> 138, 214504 (2013)]. <i>Journal of Chemical Physics</i> , 2018, 148, 137101.	1.2	58
11	On the molecular origin of high-pressure effects in nanoconfinement: The role of surface chemistry and roughness. <i>Journal of Chemical Physics</i> , 2013, 139, 144701.	1.2	57
12	Recent advances in molecular simulation: A chemical engineering perspective. <i>AIChE Journal</i> , 2015, 61, 370-383.	1.8	53
13	Cooperative effects of inorganic and organic structure-directing agents in ZSM-5 crystallization. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 159-170.	1.7	51
14	Computational investigation of cold denaturation in the Trp-cage miniprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8991-8996.	3.3	48
15	Crystallization of Mordeite Platelets using Cooperative Organic Structure-Directing Agents. <i>Journal of the American Chemical Society</i> , 2019, 141, 20155-20165.	6.6	42
16	Molecular Modifiers Suppress Nonclassical Pathways of Zeolite Crystallization. <i>Chemistry of Materials</i> , 2019, 31, 3228-3238.	3.2	39
17	A non-equilibrium molecular dynamics study of methane transport in clay nano-pores. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 88-96.	2.2	32
18	Coupling of Nanoparticle Dynamics to Polymer Center-of-Mass Motion in Semidilute Polymer Solutions. <i>Macromolecules</i> , 2018, 51, 1865-1872.	2.2	32

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19	Simulating Local Adsorption Isotherms in Structurally Complex Porous Materials: A Direct Assessment of the Slit Pore Model. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 165-169.	2.1	30
20	Liquid-liquid phase transition in an ionic model of silica. <i>Journal of Chemical Physics</i> , 2017, 146, 234503.	1.2	29
21	Modeling hydrodynamic interactions in soft materials with multiparticle collision dynamics. <i>Current Opinion in Chemical Engineering</i> , 2019, 23, 34-43.	3.8	29
22	Influence of polymer flexibility on nanoparticle dynamics in semidilute solutions. <i>Soft Matter</i> , 2019, 15, 1260-1268.	1.2	27
23	Olanzapine crystal symmetry originates in preformed centrosymmetric solute dimers. <i>Nature Chemistry</i> , 2020, 12, 914-920.	6.6	26
24	Adsorption and diffusion of argon in disordered nanoporous carbons. <i>Adsorption</i> , 2011, 17, 189-199.	1.4	25
25	Spatiotemporal Coke Coupling Enhances <i>para</i> -Xylene Selectivity in Highly Stable MCM-22 Catalysts. <i>Journal of the American Chemical Society</i> , 2022, 144, 7861-7870.	6.6	19
26	Palmer et al. reply. <i>Nature</i> , 2016, 531, E2-E3.	13.7	17
27	Hybrid Monte Carlo with LAMMPS. <i>Journal of Theoretical and Computational Chemistry</i> , 2018, 17, 1840002.	1.8	17
28	Computer Simulation of Water Sorption on Flexible Protein Crystals. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2713-2718.	2.1	16
29	Molecular modeling and structural characterization of a high glycine-tyrosine hair keratin associated protein. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8575-8583.	1.3	16
30	Open-source molecular modeling software in chemical engineering focusing on the Molecular Simulation Design Framework. <i>AIChE Journal</i> , 2021, 67, e17206.	1.8	16
31	Density and bond-orientational relaxations in supercooled water. <i>Molecular Physics</i> , 2016, 114, 2580-2585.	0.8	14
32	Anomalous scattering in supercooled ST2 water. <i>Molecular Physics</i> , 2018, 116, 1953-1964.	0.8	14
33	Structure Dominates Localization of Tracers within Aging Nanoparticle Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1784-1789.	2.1	13
34	Tracer Transport Probes Relaxation and Structure of Attractive and Repulsive Glassy Liquids. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3008-3013.	2.1	11
35	Acidic Polysaccharides as Green Alternatives for Barite Scale Dissolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55434-55443.	4.0	11
36	A Computational Study of the Effect of Matrix Structural Order on Water Sorption by Trp-Cage Miniproteins. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1847-1856.	1.2	9

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37	A computational investigation of the thermodynamics of the Stillinger-Weber family of models at supercooled conditions. <i>Molecular Physics</i> , 2019, 117, 3254-3268.	0.8	9
38	Tracer transport in attractive and repulsive supercooled liquids and glasses. <i>Journal of Chemical Physics</i> , 2019, 151, 194501.	1.2	9
39	Fluctuations near the liquid-liquid transition in a model of silica. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25195-25202.	1.3	8
40	Thermodynamic analysis of the stability of planar interfaces between coexisting phases and its application to supercooled water. <i>Journal of Chemical Physics</i> , 2019, 150, 224503.	1.2	7
41	Signatures of sluggish dynamics and local structural ordering during ice nucleation. <i>Journal of Chemical Physics</i> , 2022, 156, 114502.	1.2	7
42	Structuring of Organic Solvents at Solid Interfaces and Ramifications for Antimalarial Adsorption on β -Hematin Crystals. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29288-29298.	4.0	6
43	Nanoparticle dispersion in porous media: Effects of hydrodynamic interactions and dimensionality. <i>AIChE Journal</i> , 2021, 67, e17147.	1.8	6
44	Dynamics of polydisperse hard-spheres under strong confinement. <i>Molecular Physics</i> , 2020, 118, e1728407.	0.8	5
45	Nanoparticle dynamics in semidilute polymer solutions: Rings versus linear chains. <i>Journal of Rheology</i> , 2021, 65, 745-755.	1.3	5
46	Factors controlling the molecular modification of one-dimensional zeolites. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18610-18617.	1.3	5
47	How to Identify the Crystal Growth Unit. <i>Israel Journal of Chemistry</i> , 2021, 61, 818-827.	1.0	5
48	From water's ephemeral dance, a new order emerges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1829-1831.	3.3	4
49	Nanoparticle dispersion in porous media: Effects of array geometry and flow orientation. <i>Physical Review E</i> , 2021, 104, 015102.	0.8	4
50	Analysis of the solvation structure of rubidium bromide under nanoconfinement. <i>Molecular Simulation</i> , 2012, 38, 1209-1220.	0.9	3
51	Solvent Structure and Dynamics near the Surfaces of β -Hematin Crystals. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11264-11274.	1.2	2
52	Precrystallization solute assemblies and crystal symmetry. <i>Faraday Discussions</i> , 2022, 235, 307-321.	1.6	2
53	Liquid-liquid transition in ST2 water. , 0, .		1
54	Nanoparticle dispersion in porous media: Effects of attractive particle-media interactions. <i>Physical Review E</i> , 2022, 105, .	0.8	1

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55	A tribute to Keith E. Gubbins. <i>AIChE Journal</i> , 2021, 67, e17187.	1.8	0
56	Keith E. Gubbins: A retrospective. <i>AIChE Journal</i> , 2021, 67, e17191.	1.8	0