William P Krekelberg

List of Publications by Year
in descending order

20 papers	555 citations	759233 12 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	415 citing authors

#	Article	IF	Citations
1	Anomalous structure and dynamics of the Gaussian-core fluid. Physical Review E, 2009, 79, 031203.	2.1	100
2	Generalized Rosenfeld scalings for tracer diffusivities in not-so-simple fluids: Mixtures and soft particles. Physical Review E, 2009, 80, 061205.	2.1	79
3	Tuning Density Profiles and Mobility of Inhomogeneous Fluids. Physical Review Letters, 2008, 100, 106001.	7.8	60
4	How short-range attractions impact the structural order, self-diffusivity, and viscosity of a fluid. Journal of Chemical Physics, 2007, 127, 044502.	3.0	59
5	Available states and available space: static properties that predict self-diffusivity of confined fluids. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P04006.	2.3	43
6	Structural anomalies of fluids: Origins in second and higher coordination shells. Physical Review E, 2008, 77, 041201.	2.1	41
7	Relation between pore size and the compressibility of a confined fluid. Journal of Chemical Physics, 2015, 143, 194506.	3.0	38
8	Impact of surface roughness on diffusion of confined fluids. Journal of Chemical Physics, 2011, 135, 154502.	3.0	30
9	Model for the free-volume distributions of equilibrium fluids. Journal of Chemical Physics, 2006, 124, 214502.	3.0	15
10	Structural signatures of mobility on intermediate time scales in a supercooled fluid. Journal of Chemical Physics, 2010, 132, .	3.0	15
11	Connection between Thermodynamics and Dynamics of Simple Fluids in Highly Attractive Pores. Langmuir, 2013, 29, 14527-14535.	3.5	15
12	Residual multiparticle entropy does not generally change sign near freezing. Journal of Chemical Physics, 2008, 128, 161101.	3.0	14
13	Connection Between Thermodynamics and Dynamics of Simple Fluids in Pores: Impact of Fluidâ€“Fluid Interaction Range and Fluidâ€“Solid Interaction Strength. Journal of Physical Chemistry C, 2017, 121, 16316-16327.	3.1	12
14	Quasi-Two-Dimensional Phase Transition of Methane Adsorbed in Cylindrical Silica Mesopores. Langmuir, 2017, 33, 14252-14262.	3.5	8
15	Shear-rate-dependent structural order and viscosity of a fluid with short-range attractions. Physical Review E, 2008, 78, 010201.	2.1	7
16	RELATIONSHIP BETWEEN SHEAR VISCOSITY AND STRUCTURE OF A MODEL COLLOIDAL SUSPENSION. Chemical Engineering Communications, 2009, 197, 63-75.	2.6	6
17	On the virial coefficients of confined fluids: Analytic expressions for the thermodynamic properties of hard particles with attractions in slit and cylindrical pores to second order. Journal of Chemical Physics, 2019, 150, 044704.	3.0	5
18	Response to â€œComment on â€˜Residual multiparticle entropy does not generally change sign near freezingâ€™â€‰â€•[J. Chem. Phys. 130, 037101 (2009)]. Journal of Chemical Physics, 2009, 130, 037102.	3.0	4

#	Article	IF	Citations
19	Position-Dependent Dynamics Explain Pore-Averaged Diffusion in Strongly Attractive Adsorptive Systems. Langmuir, 2017, 33, 13955-13963.	3.5	4
20	On the virial expansion of model adsorptive systems. Molecular Physics, 2022, 120, .	1.7	0