Afshin Eskandari Nasrabad

List of Publications by Year
in descending order

18 papers	380 citations	758635 12 h-index	839053 18 g-index
18 all docs	18 docs citations	18 times ranked	232 citing authors

#	Article	IF	Citations
1	Generic van der Waals Equation of State, Modified Free Volume Theory of Diffusion, and Viscosity of Simple Liquids. Journal of Physical Chemistry B, 2005, 109, 5873-5883.	1.2	47
2	Prediction of thermodynamic properties of krypton by Monte Carlo simulation using ab initio interaction potentials. Journal of Chemical Physics, 2003, 119, 947-952.	1.2	44
3	Excluded volume in the generic van der Waals equation of state and the self-diffusion coefficient of the Lennard-Jones fluid. Journal of Chemical Physics, 2006, 124, 154502.	1.2	44
4	Computational studies on thermodynamic properties, effective diameters, and free volume of argon using anab initiopotential. Journal of Chemical Physics, 2006, 125, 084510.	1.2	27
5	A Polymer-Brush-Based Nanovalve Controlled by Nanoparticle Additives: Design Principles. Journal of Physical Chemistry B, 2015, 119, 11858-11866.	1.2	26
6	Molecular theory of thermal conductivity of the Lennard-Jones fluid. Journal of Chemical Physics, 2006, 124, 084506.	1.2	25
7	Statistical-mechanical theory of rheology: Lennard-Jones fluids. Journal of Chemical Physics, 2005, 123, 234507.	1.2	24
8	Modified Free Volume Theory of Self-Diffusion and Molecular Theory of Shear Viscosity of Liquid Carbon Dioxide. Journal of Physical Chemistry B, 2005, 109, 8171-8179.	1.2	24
9	Pair Correlation Functions and the Self-Diffusion Coefficient of Lennard-Jones Liquid in the Modified Free Volume Theory of Diffusion. Journal of Physical Chemistry B, 2005, 109, 21375-21379.	1.2	21
10	Monte Carlo simulations of thermodynamic and structural properties of Mie(14,7) fluids. Journal of Chemical Physics, 2008, 128, 154514.	1.2	19
11	Transport properties of Mie(14,7) fluids: Molecular dynamics simulation and theory. Journal of Chemical Physics, 2008, 129, 024507.	1.2	17
12	Precise control of polymer coated nanopores by nanoparticle additives: Insights from computational modeling. Journal of Chemical Physics, 2016, 145, .	1.2	17
13	Thermodynamic and transport properties of the Weeksâ€“Chandlerâ€“Andersen fluid: Theory and computer simulation. Journal of Chemical Physics, 2008, 129, 244508.	1.2	11
14	Self-diffusion coefficient of two-center Lennard-Jones fluids: Molecular simulations and free volume theory. Journal of Chemical Physics, 2009, 130, 024503.	1.2	11
15	Effects of cross-linking on partitioning of nanoparticles into a polymer brush: Coarse-grained simulations test simple approximate theories. Journal of Chemical Physics, 2018, 148, 024902.	1.2	11
16	Theoretical and computational investigations on thermodynamic properties, effective site diameters, and molecular free volume of carbon disulfide fluid. Journal of Chemical Physics, 2006, 125, 154505.	1.2	6
17	Theory and atomistic simulation of krypton fluid. Journal of Chemical Physics, 2008, 129, 244504.	1.2	4
18	The Influence of Bond Angle on Thermophysical Properties of Three-Center Lennard-Jones Fluids: Computer Simulation and Theory. Zeitschrift Fur Physikalische Chemie, 2019, 233, 551-576.	1.4	2