

Rakesh S Singh

List of Publications by Year in descending order

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31
papers

571
citations

759233

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32
docs citations

32
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-state thermodynamics and the possibility of a liquid-liquid phase transition in supercooled TIP4P/2005 water. <i>Journal of Chemical Physics</i> , 2016, 144, 144504.	3.0	145
2	Two-structure thermodynamics for the TIP4P/2005 model of water covering supercooled and deeply stretched regions. <i>Journal of Chemical Physics</i> , 2017, 146, 034502.	3.0	107
3	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.	3.0	58
4	Nucleation of a Stable Solid from Melt in the Presence of Multiple Metastable Intermediate Phases: Wetting, Ostwald's Step Rule, and Vanishing Polymorphs. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13154-13163.	2.6	27
5	Thermodynamic Anomalies in Stretched Water. <i>Langmuir</i> , 2017, 33, 11771-11778.	3.5	27
6	Dynamical simulation of dipolar Janus colloids: Equilibrium structure and thermodynamics. <i>Journal of Chemical Physics</i> , 2012, 137, 044505.	3.0	22
7	Molecular modeling and structural characterization of a high glycine-tyrosine hair keratin associated protein. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8575-8583.	2.8	16
8	Correlation between thermodynamic anomalies and pathways of ice nucleation in supercooled water. <i>Journal of Chemical Physics</i> , 2014, 140, 164503.	3.0	15
9	Orientalional order as the origin of the long-range hydrophobic effect. <i>Journal of Chemical Physics</i> , 2015, 142, 134505.	3.0	15
10	Density and bond-orientational relaxations in supercooled water. <i>Molecular Physics</i> , 2016, 114, 2580-2585.	1.7	14
11	Anomalous scattering in supercooled ST2 water. <i>Molecular Physics</i> , 2018, 116, 1953-1964.	1.7	14
12	Dynamical simulation of dipolar Janus colloids: Dynamical properties. <i>Journal of Chemical Physics</i> , 2013, 138, 184903.	3.0	12
13	Structure of a tractable stochastic mimic of soft particles. <i>Soft Matter</i> , 2014, 10, 5350-5361.	2.7	11
14	Polymorph selection during crystallization of a model colloidal fluid with a free energy landscape containing a metastable solid. <i>Physical Review E</i> , 2018, 98, .	2.1	10
15	Anisotropy induced crossover from weakly to strongly first order melting of two dimensional solids. <i>Journal of Chemical Physics</i> , 2013, 138, 184507.	3.0	9
16	Stochastic dynamics of penetrable rods in one dimension: Occupied volume and spatial order. <i>Journal of Chemical Physics</i> , 2013, 138, 244901.	3.0	9
17	Gas-liquid nucleation at large metastability: unusual features and a new formalism. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P03017.	2.3	7
18	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.	3.0	7

#	ARTICLE	IF	CITATIONS
19	Dynamical simulation of electrostatic striped colloidal particles. Journal of Chemical Physics, 2014, 140, 034701.	3.0	6
20	Modeling soft core-shell colloids using stochastic hard collision dynamics. Chemical Physics Letters, 2018, 708, 233-240.	2.6	6
21	Effective Surface Coverage of Coarse-Grained Soft Matter. Journal of Physical Chemistry B, 2014, 118, 14092-14102.	2.6	5
22	Stochastic dynamics of penetrable rods in one dimension: Entangled dynamics and transport properties. Journal of Chemical Physics, 2015, 142, 154906.	3.0	5
23	Effects of disulfide bridges and backbone connectivity on water sorption by protein matrices. Scientific Reports, 2017, 7, 7957.	3.3	4
24	A Cuban Campesino in Chemistry's Academic Court. Journal of Physical Chemistry A, 2021, 125, 6505-6511.	2.5	4
25	Sensitivity of nucleation phenomena on range of interaction potential. Journal of Chemical Physics, 2012, 136, 084701.	3.0	3
26	Microscopic Origin of Hysteresis in Water Sorption on Protein Matrices. Journal of Physical Chemistry Letters, 2017, 8, 1185-1190.	4.6	3
27	Solvent softness effects on unimolecular chemical reaction rate constants. Chemical Physics Letters, 2020, 744, 137182.	2.6	3
28	Solid-solid collapse transition in a two dimensional model molecular system. Journal of Chemical Physics, 2013, 139, 194702.	3.0	2
29	Nonequilibrium structure in sequential assembly. Physical Review E, 2015, 92, 052108.	2.1	2
30	A Cuban Campesino in Chemistry's Academic Court. Journal of Physical Chemistry C, 2021, 125, 16371-16377.	3.1	1
31	A Cuban Campesino in Chemistry's Academic Court. Journal of Physical Chemistry B, 2021, 125, 8261-8267.	2.6	1