Rakesh S Singh

List of Publications by Year
in descending order

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31	571	759233 12	610901 24
papers	citations	h-index	g-index

32	32	32	531
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Cuban Campesino in Chemistryâ€™s Academic Court. Journal of Physical Chemistry C, 2021, 125, 16371-16377.	3.1	1
2	A Cuban Campesino in Chemistryâ€™s Academic Court. Journal of Physical Chemistry B, 2021, 125, 8261-8267.	2.6	1
3	A Cuban Campesino in Chemistryâ€™s Academic Court. Journal of Physical Chemistry A, 2021, 125, 6505-6511.	2.5	4
4	Solvent softness effects on unimolecular chemical reaction rate constants. Chemical Physics Letters, 2020, 744, 137182.	2.6	3
5	Thermodynamic analysis of the stability of planar interfaces between coexisting phases and its application to supercooled water. Journal of Chemical Physics, 2019, 150, 224503.	3.0	7
6	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.	3.0	58
7	Modeling soft core-shell colloids using stochastic hard collision dynamics. Chemical Physics Letters, 2018, 708, 233-240.	2.6	6
8	Polymorph selection during crystallization of a model colloidal fluid with a free energy landscape containing a metastable solid. Physical Review E, 2018, 98, .	2.1	10
9	Anomalous scattering in supercooled ST2 water. Molecular Physics, 2018, 116, 1953-1964.	1.7	14
10	Microscopic Origin of Hysteresis in Water Sorption on Protein Matrices. Journal of Physical Chemistry Letters, 2017, 8, 1185-1190.	4.6	3
11	Molecular modeling and structural characterization of a high glycineâ€“tyrosine hair keratin associated protein. Physical Chemistry Chemical Physics, 2017, 19, 8575-8583.	2.8	16
12	Two-structure thermodynamics for the TIP4P/2005 model of water covering supercooled and deeply stretched regions. Journal of Chemical Physics, 2017, 146, 034502.	3.0	107
13	Thermodynamic Anomalies in Stretched Water. Langmuir, 2017, 33, 11771-11778.	3.5	27
14	Effects of disulfide bridges and backbone connectivity on water sorption by protein matrices. Scientific Reports, 2017, 7, 7957.	3.3	4
15	Two-state thermodynamics and the possibility of a liquid-liquid phase transition in supercooled TIP4P/2005 water. Journal of Chemical Physics, 2016, 144, 144504.	3.0	145
16	Density and bond-orientational relaxations in supercooled water. Molecular Physics, 2016, 114, 2580-2585.	1.7	14
17	Nonequilibrium structure in sequential assembly. Physical Review E, 2015, 92, 052108.	2.1	2
18	Orientational order as the origin of the long-range hydrophobic effect. Journal of Chemical Physics, 2015, 142, 134505.	3.0	15

#	Article	IF	Citations
19	Stochastic dynamics of penetrable rods in one dimension: Entangled dynamics and transport properties. Journal of Chemical Physics, 2015, 142, 154906.	3.0	5
20	Correlation between thermodynamic anomalies and pathways of ice nucleation in supercooled water. Journal of Chemical Physics, 2014, 140, 164503.	3.0	15
21	Dynamical simulation of electrostatic striped colloidal particles. Journal of Chemical Physics, 2014, 140, 034701.	3.0	6
22	Structure of a tractable stochastic mimic of soft particles. Soft Matter, 2014, 10, 5350-5361.	2.7	11
23	Effective Surface Coverage of Coarse-Grained Soft Matter. Journal of Physical Chemistry B, 2014, 118, 14092-14102.	2.6	5
24	Anisotropy induced crossover from weakly to strongly first order melting of two dimensional solids. Journal of Chemical Physics, 2013, 138, 184507.	3.0	9
25	Nucleation of a Stable Solid from Melt in the Presence of Multiple Metastable Intermediate Phases: Wetting, Ostwaldâ€™s Step Rule, and Vanishing Polymorphs. Journal of Physical Chemistry B, 2013, 117, 13154-13163.	2.6	27
26	Dynamical simulation of dipolar Janus colloids: Dynamical properties. Journal of Chemical Physics, 2013, 138, 184903.	3.0	12
27	Solid-solid collapse transition in a two dimensional model molecular system. Journal of Chemical Physics, 2013, 139, 194702.	3.0	2
28	Stochastic dynamics of penetrable rods in one dimension: Occupied volume and spatial order. Journal of Chemical Physics, 2013, 138, 244901.	3.0	9
29	Dynamical simulation of dipolar Janus colloids: Equilibrium structure and thermodynamics. Journal of Chemical Physics, 2012, 137, 044505.	3.0	22
30	Sensitivity of nucleation phenomena on range of interaction potential. Journal of Chemical Physics, 2012, 136, 084701.	3.0	3
31	Gasâ€“liquid nucleation at large metastability: unusual features and a new formalism. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03017.	2.3	7