Shenghua Xu

List of Publications by Year in descending order

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36	422	759233 12	794594 19
papers	citations	h-index	g-index

37	37	37	388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A microscopic approach to studying colloidal stability. Journal of Chemical Physics, 2003, 119, 2399-2405.	3.0	43
2	Impact of Thermodiffusion on the Initial Vertical Distribution of Species in Hydrocarbon Reservoirs. Microgravity Science and Technology, 2016, 28, 79-86.	1.4	42
3	Thermodiffusion in multicomponent n-alkane mixtures. Npj Microgravity, 2017, 3, 20.	3.7	32
4	Formation of an fcc phase through a bcc metastable state in crystallization of charged colloidal particles. Physical Review E, 2010, 82, 010401.	2.1	31
5	Progress in coagulation rate measurements of colloidal dispersions. Soft Matter, 2011, 7, 11298.	2.7	31
6	Optical factors determined by the T-matrix method in turbidity measurement of absolute coagulation rate constants. Journal of Colloid and Interface Science, 2006, 304, 107-114.	9.4	23
7	Kinetics Study of Crystallization with the Disorderâ€“bccâ€“fcc Phase Transition of Charged Colloidal Dispersions. Langmuir, 2011, 27, 7439-7445.	3.5	23
8	Brownian dynamics simulation of the crystallization dynamics of charged colloidal particles. Journal of Colloid and Interface Science, 2010, 350, 409-416.	9.4	19
9	Toward an Understanding of the Turbidity Measurement of Heterocoagulation Rate Constants of Dispersions Containing Particles of Different Sizes. Langmuir, 2007, 23, 11451-11457.	3.5	18
10	Computer simulation on the collision-sticking dynamics of two colloidal particles in an optical trap. Journal of Chemical Physics, 2007, 126, 144903.	3.0	14
11	Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. Microgravity Science and Technology, 2020, 32, 873-887.	1.4	14
12	Improved procedure on the microscopic approach to determine colloidal stability. Journal of Chemical Physics, 2005, 122, 184904.	3.0	13
13	Structural ordering and glass forming of soft spherical particles with harmonic repulsions. Journal of Chemical Physics, 2014, 140, 134904.	3.0	10
14	Rapid determination of colloidal crystal's structure by reflection spectrum. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 50-54.	4.7	9
15	Polymorph selection and nucleation pathway in the crystallization of Hertzian spheres. Physical Review E, 2016, 94, 042805.	2.1	9
16	A study on independently using static and dynamic light scattering methods to determine the coagulation rate. Journal of Chemical Physics, 2014, 141, 094302.	3.0	8
17	Shear moduli in bcc-fcc structure transition of colloidal crystals. Journal of Chemical Physics, 2015, 143, 144903.	3.0	7
18	Crystal nucleation and metastable bcc phase in charged colloids: A molecular dynamics study. Journal of Chemical Physics, 2018, 148, 174904.	3.0	7

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19	Evaluation of the Uncertainties Caused by the Forward Scattering in Turbidity Measurement of the Coagulation Rate. Langmuir, 2010, 26, 6908-6918.	3.5	6
20	Gas-liquid phase coexistence and finite-size effects in a two-dimensional Lennard-Jones system. Science Bulletin, 2011, 56, 2773-2779.	1.7	6
21	Two examples of using physical mechanics approach to evaluate colloidal stability. Science China: Physics, Mechanics and Astronomy, 2012, 55, 933-939.	5.1	6
22	Crystallization Kinetics of Concurrent Liquidâ€“Metastable and Metastableâ€“Stable Transitions, and Ostwaldâ€™s Step Rule. Langmuir, 2015, 31, 7204-7209.	3.5	6
23	Evolution of concentration and phase structure of colloidal suspensions in a two-ends-open tube during drying process. Scientific Reports, 2020, 10, 9084.	3.3	6
24	Entire crystallization process of Lennard-Jones liquids: A large-scale molecular dynamics study. Journal of Chemical Physics, 2020, 152, 054903.	3.0	6
25	Influence of the surface charge on the homogeneity of colloidal crystals. Journal of Chemical Physics, 2013, 139, 064904.	3.0	5
26	Molecular dynamics study of homogeneous and inhomogeneous phase in charged colloids: The influence of surface charge density. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 598-605.	4.7	4
27	Experimental Study of Gravitation Effects on Liquid Crystal Phase Transitions in Polydisperse Aqueous Suspensions of Mg 2Al Layered Double Hydroxide. Microgravity Science and Technology, 2016, 28, 95-100.	1.4	4
28	Polymorph selection in the crystallization of hard-core Yukawa system. Science China Chemistry, 2016, 59, 316-323.	8.2	4
29	A novel inverse method for determining the refractive indices of medium and dispersed particles simultaneously by turbidity measurement. Journal of Colloid and Interface Science, 2008, 326, 110-116.	9.4	3
30	On the applicability of Youngâ€“Laplace equation for nanoscale liquid drops. Russian Journal of Physical Chemistry A, 2016, 90, 635-640.	0.6	3
31	Effect of void structures in crystalline structure on the shear moduli of charged colloidal crystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 115-120.	4.7	3
32	Anomalous and non-Gaussian diffusion in Hertzian spheres. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 61-68.	2.6	2
33	Molecular Dynamics Simulation of the Soret Effect on Two Binary Liquid Solutions with Equimolar n-Alkane Mixtures. ACS Omega, 2022, 7, 518-527.	3.5	2
34	Diffusion and convection in nature. European Physical Journal E, 2021, 44, 145.	1.6	1
35	A study of effects of the non-DLVO interparticle interactions on aggregation rate. Colloid and Polymer Science, 2022, 300, 477-485.	2.1	1
36	Determination of Bulk Modulus for a Colloidal Crystal with Highly Charged Particles by DC Electric Field. Journal of Physical Chemistry A, 2019, 123, 7864-7871.	2.5	0