

Shenghua Xu

List of Publications by Year in descending order

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388
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A study of effects of the non-DLVO interparticle interactions on aggregation rate. <i>Colloid and Polymer Science</i> , 2022, 300, 477-485. | 2.1 | 1 |
| 2 | Molecular Dynamics Simulation of the Soret Effect on Two Binary Liquid Solutions with Equimolar n -Alkane Mixtures. <i>ACS Omega</i> , 2022, 7, 518-527. | 3.5 | 2 |
| 3 | Diffusion and convection in nature. <i>European Physical Journal E</i> , 2021, 44, 145. | 1.6 | 1 |
| 4 | Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. <i>Microgravity Science and Technology</i> , 2020, 32, 873-887. | 1.4 | 14 |
| 5 | Evolution of concentration and phase structure of colloidal suspensions in a two-ends-open tube during drying process. <i>Scientific Reports</i> , 2020, 10, 9084. | 3.3 | 6 |
| 6 | Entire crystallization process of Lennard-Jones liquids: A large-scale molecular dynamics study. <i>Journal of Chemical Physics</i> , 2020, 152, 054903. | 3.0 | 6 |
| 7 | Determination of Bulk Modulus for a Colloidal Crystal with Highly Charged Particles by DC Electric Field. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7864-7871. | 2.5 | 0 |
| 8 | Anomalous and non-Gaussian diffusion in Hertzian spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 61-68. | 2.6 | 2 |
| 9 | Crystal nucleation and metastable bcc phase in charged colloids: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2018, 148, 174904. | 3.0 | 7 |
| 10 | Effect of void structures in crystalline structure on the shear moduli of charged colloidal crystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 115-120. | 4.7 | 3 |
| 11 | Thermodiffusion in multicomponent n-alkane mixtures. <i>Npj Microgravity</i> , 2017, 3, 20. | 3.7 | 32 |
| 12 | Polymorph selection and nucleation pathway in the crystallization of Hertzian spheres. <i>Physical Review E</i> , 2016, 94, 042805. | 2.1 | 9 |
| 13 | Experimental Study of Gravitation Effects on Liquid Crystal Phase Transitions in Polydisperse Aqueous Suspensions of Mg 2Al Layered Double Hydroxide. <i>Microgravity Science and Technology</i> , 2016, 28, 95-100. | 1.4 | 4 |
| 14 | Polymorph selection in the crystallization of hard-core Yukawa system. <i>Science China Chemistry</i> , 2016, 59, 316-323. | 8.2 | 4 |
| 15 | On the applicability of Young's Laplace equation for nanoscale liquid drops. <i>Russian Journal of Physical Chemistry A</i> , 2016, 90, 635-640. | 0.6 | 3 |
| 16 | Impact of Thermodiffusion on the Initial Vertical Distribution of Species in Hydrocarbon Reservoirs. <i>Microgravity Science and Technology</i> , 2016, 28, 79-86. | 1.4 | 42 |
| 17 | Shear moduli in bcc-fcc structure transition of colloidal crystals. <i>Journal of Chemical Physics</i> , 2015, 143, 144903. | 3.0 | 7 |
| 18 | Crystallization Kinetics of Concurrent Liquid's Metastable and Metastable's Stable Transitions, and Ostwald's Step Rule. <i>Langmuir</i> , 2015, 31, 7204-7209. | 3.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Structural ordering and glass forming of soft spherical particles with harmonic repulsions. <i>Journal of Chemical Physics</i> , 2014, 140, 134904. | 3.0 | 10 |
| 20 | Molecular dynamics study of homogeneous and inhomogeneous phase in charged colloids: The influence of surface charge density. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 598-605. | 4.7 | 4 |
| 21 | A study on independently using static and dynamic light scattering methods to determine the coagulation rate. <i>Journal of Chemical Physics</i> , 2014, 141, 094302. | 3.0 | 8 |
| 22 | Influence of the surface charge on the homogeneity of colloidal crystals. <i>Journal of Chemical Physics</i> , 2013, 139, 064904. | 3.0 | 5 |
| 23 | Two examples of using physical mechanics approach to evaluate colloidal stability. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 933-939. | 5.1 | 6 |
| 24 | Progress in coagulation rate measurements of colloidal dispersions. <i>Soft Matter</i> , 2011, 7, 11298. | 2.7 | 31 |
| 25 | Kinetics Study of Crystallization with the Disorder \rightarrow bcc \rightarrow fcc Phase Transition of Charged Colloidal Dispersions. <i>Langmuir</i> , 2011, 27, 7439-7445. | 3.5 | 23 |
| 26 | Gas-liquid phase coexistence and finite-size effects in a two-dimensional Lennard-Jones system. <i>Science Bulletin</i> , 2011, 56, 2773-2779. | 1.7 | 6 |
| 27 | Rapid determination of colloidal crystal's structure by reflection spectrum. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 375, 50-54. | 4.7 | 9 |
| 28 | Brownian dynamics simulation of the crystallization dynamics of charged colloidal particles. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 409-416. | 9.4 | 19 |
| 29 | Formation of an fcc phase through a bcc metastable state in crystallization of charged colloidal particles. <i>Physical Review E</i> , 2010, 82, 010401. | 2.1 | 31 |
| 30 | Evaluation of the Uncertainties Caused by the Forward Scattering in Turbidity Measurement of the Coagulation Rate. <i>Langmuir</i> , 2010, 26, 6908-6918. | 3.5 | 6 |
| 31 | A novel inverse method for determining the refractive indices of medium and dispersed particles simultaneously by turbidity measurement. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 110-116. | 9.4 | 3 |
| 32 | Computer simulation on the collision-sticking dynamics of two colloidal particles in an optical trap. <i>Journal of Chemical Physics</i> , 2007, 126, 144903. | 3.0 | 14 |
| 33 | Toward an Understanding of the Turbidity Measurement of Heterocoagulation Rate Constants of Dispersions Containing Particles of Different Sizes. <i>Langmuir</i> , 2007, 23, 11451-11457. | 3.5 | 18 |
| 34 | Optical factors determined by the T-matrix method in turbidity measurement of absolute coagulation rate constants. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 107-114. | 9.4 | 23 |
| 35 | Improved procedure on the microscopic approach to determine colloidal stability. <i>Journal of Chemical Physics</i> , 2005, 122, 184904. | 3.0 | 13 |
| 36 | A microscopic approach to studying colloidal stability. <i>Journal of Chemical Physics</i> , 2003, 119, 2399-2405. | 3.0 | 43 |