

Hans Joachim SchÄŸpe

List of Publications by Year in descending order

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58
papers

1,643
citations

236612

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docs citations

59
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	Precursor-Mediated Crystallization Process in Suspensions of Hard Spheres. <i>Physical Review Letters</i> , 2010, 105, 025701.	2.9	175
2	Two-Step Crystallization Kinetics in Colloidal Hard-Sphere Systems. <i>Physical Review Letters</i> , 2006, 96, 175701.	2.9	164
3	Comparison of colloidal effective charges from different experiments. <i>Journal of Chemical Physics</i> , 2002, 116, 10981-10988.	1.2	84
4	Effect of polydispersity on the crystallization kinetics of suspensions of colloidal hard spheres when approaching the glass transition. <i>Journal of Chemical Physics</i> , 2007, 127, 084505.	1.2	74
5	Crystallization kinetics of polydisperse hard-sphere-like microgel colloids: Ripening dominated crystal growth above melting. <i>Journal of Chemical Physics</i> , 2009, 130, 084502.	1.2	56
6	Microscopic investigations of homogeneous nucleation in charged sphere suspensions. <i>Journal of Chemical Physics</i> , 2005, 123, 174902.	1.2	54
7	Response of the elastic properties of colloidal crystals to phase transitions and morphological changes. <i>Journal of Chemical Physics</i> , 1998, 109, 10068-10074.	1.2	53
8	A comparative study on the phase behaviour of highly charged colloidal spheres in a confining wedge geometry. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2779-S2786.	0.7	46
9	Self-Organized Cooperative Swimming at Low Reynolds Numbers. <i>Langmuir</i> , 2013, 29, 1738-1742.	1.6	40
10	Experimental determination of effective charges in aqueous suspensions of colloidal spheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 222, 311-321.	2.3	39
11	Fast Microscopic Method for Large Scale Determination of Structure, Morphology, and Quality of Thin Colloidal Crystals. <i>Langmuir</i> , 2006, 22, 1828-1838.	1.6	35
12	Small changes in particle-size distribution dramatically delay and enhance nucleation in hard sphere colloidal suspensions. <i>Physical Review E</i> , 2006, 74, 060401.	0.8	35
13	Nucleation kinetics in deionized charged colloidal model systems: A quantitative study by means of classical nucleation theory. <i>Physical Review E</i> , 2007, 75, 051405.	0.8	35
14	Correlation between dynamical and structural heterogeneities in colloidal hard-sphere suspensions. <i>Nature Physics</i> , 2016, 12, 712-717.	6.5	35
15	Preparation and Characterization of Particles with Small Differences in Polydispersity. <i>Langmuir</i> , 2007, 23, 11534-11539.	1.6	33
16	Phase behaviour of deionized binary mixtures of charged colloidal spheres. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464116.	0.7	33
17	Communications: Complete description of re-entrant phase behavior in a charge variable colloidal model system. <i>Journal of Chemical Physics</i> , 2010, 132, 131102.	1.2	33
18	Colloidal crystallization in the quasi-two-dimensional induced by electrolyte gradients. <i>Journal of Chemical Physics</i> , 2012, 136, 164505.	1.2	32

#	ARTICLE	IF	CITATIONS
19	Heterogeneous nucleation of colloidal melts under the influence of shearing fields. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S3885-S3902.	0.7	31
20	Heterogeneous and homogeneous crystal nucleation in colloidal hard-sphere like microgels at low metastabilities. <i>Soft Matter</i> , 2011, 7, 11267.	1.2	29
21	Crystallization in charged two-component suspensions. <i>Journal of Chemical Physics</i> , 2005, 122, 144901.	1.2	28
22	Seed- and wall-induced heterogeneous nucleation in charged colloidal model systems under microgravity. <i>Physical Review E</i> , 2011, 83, 051405.	0.8	27
23	Correlations between morphology, phase behavior and pair interaction in soft sphere solids. <i>Journal of Chemical Physics</i> , 2002, 116, 5901-5907.	1.2	26
24	Construction and stability of a close-packed structure observed in thin colloidal crystals. <i>Physical Review E</i> , 2007, 76, 050402.	0.8	26
25	Ripening-dominated crystallization in polydisperse hard-sphere-like colloids. <i>Physical Review E</i> , 2009, 79, 010601.	0.8	26
26	Heterogeneous and homogeneous crystal nucleation in a colloidal model system of charged spheres at low metastabilities. <i>Soft Matter</i> , 2011, 7, 5685.	1.2	24
27	Competition between heterogeneous and homogeneous nucleation near a flat wall. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464115.	0.7	23
28	Crystallization in suspensions of hard spheres: a Monte Carlo and molecular dynamics simulation study. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 194120.	0.7	23
29	Crystalline multilayers of charged colloids in soft confinement: experiment versus theory. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 464123.	0.7	22
30	Phase behavior of a de-ionized binary mixture of charged spheres in the presence of gravity. <i>Journal of Chemical Physics</i> , 2009, 131, 134501.	1.2	21
31	Confined colloidal crystals in and out of equilibrium. <i>European Physical Journal: Special Topics</i> , 2013, 222, 3011-3022.	1.2	20
32	Exotic crystal superstructures of colloidal crystals in confinement. <i>Physical Review E</i> , 2008, 77, 061401.	0.8	17
33	Effective charges along the melting line of colloidal crystals. <i>Journal of Chemical Physics</i> , 2006, 125, 194714.	1.2	16
34	Solidification of a colloidal hard sphere like model system approaching and crossing the glass transition. <i>Soft Matter</i> , 2014, 10, 5380.	1.2	16
35	Charged colloidal particles in a charged wedge: do they go in or out?. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 404221.	0.7	15
36	Drastic Variation of the Microstructure Formation in a Charged Sphere Colloidal Model System by Adding Merely Tiny Amounts of Larger Particles. <i>Crystal Growth and Design</i> , 2010, 10, 2258-2266.	1.4	15

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37	Transient Moiré rotation patterns in thin colloidal crystals. <i>Soft Matter</i> , 2010, 6, 5312.	1.2	15
38	A Hitchhiker's Guide to Particle Sizing Techniques. <i>Langmuir</i> , 2020, 36, 10307-10320.	1.6	15
39	Enhanced crystal stability in a binary mixture of charged colloidal spheres. <i>Physical Review E</i> , 2009, 80, 021407.	0.8	14
40	Structure and transport properties of charged sphere suspensions in (local) electric fields. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2835-2853.	1.2	14
41	The cage effect in systems of hard spheres. <i>Journal of Chemical Physics</i> , 2017, 146, 104503.	1.2	14
42	Opaline Hydrogels: Polycrystalline Body-Centered-Cubic Bulk Material with an in Situ Variable Lattice Constant. <i>Chemistry of Materials</i> , 2007, 19, 6095-6100.	3.2	13
43	Micro-structure evolution of wall based crystals after casting of model suspensions as obtained from Bragg microscopy. <i>Journal of Chemical Physics</i> , 2012, 137, 094906.	1.2	13
44	Easy-use and low-cost fiber-based two-color dynamic light-scattering apparatus. <i>Physical Review E</i> , 2012, 85, 031401.	0.8	11
45	Experimental visualization of inoculation using a charged colloidal model system. <i>Soft Matter</i> , 2012, 8, 11034.	1.2	11
46	Polymer induced changes of the crystallization scenario in suspensions of hard sphere like microgel particles. <i>Journal of Chemical Physics</i> , 2012, 136, 234906.	1.2	10
47	From nuclei to micro-structure in colloidal crystallization: Investigating intermediate length scales by small angle laser light scattering. <i>Journal of Chemical Physics</i> , 2015, 143, 064903.	1.2	10
48	Heterogeneous nucleation and microstructure formation in colloidal model systems with various interactions. <i>European Physical Journal: Special Topics</i> , 2014, 223, 389-407.	1.2	9
49	Charged colloidal model systems under confinement in slit geometry: A new setup for optical microscopic studies. <i>Review of Scientific Instruments</i> , 2013, 84, 063907.	0.6	8
50	Space-resolved dynamic light scattering probing inhomogeneous dynamics in soft matter. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	5
51	Regular Horizontal Patterning on Colloidal Crystals Produced by Vertical Deposition. , 2008, , 48-56.		3
52	Dynamic signature of the first order freezing transition in colloidal hard spheres. , 2013, , .		2
53	Coincidence of the freezing and the onset of caging in hard sphere and Lennard-Jones fluids. <i>Journal of Chemical Physics</i> , 2019, 151, 104501.	1.2	2
54	Solidification Experiments in Single-Component and Binary Colloidal Melts. , 0, , 185-211.		2

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55	The kinetics of crystallization and vitrification in colloidal hard spheres. , 2013, , .		1
56	Entropic Identification of the First Order Freezing Transition of a Suspension of Hard Sphere Particles. Physical Review Letters, 2020, 124, 205701.	2.9	1
57	Crystallization of hard-sphere colloids – deviations from classical nucleation theory. , 2006, , .		0
58	Consistence of the Mean Field Description of Charged Colloidal Crystal Properties. , 0, , 88-94.		0