

Hans Joachim Schpe

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56
papers

1,471
citations

23
h-index

36
g-index

59
ext. papers

1,567
ext. citations

3.7
avg, IF

4.5
L-index

#	Paper	IF	Citations
56	Precursor-mediated crystallization process in suspensions of hard spheres. <i>Physical Review Letters</i> , 2010 , 105, 025701	7.4	160
55	Two-step crystallization kinetics in colloidal hard-sphere systems. <i>Physical Review Letters</i> , 2006 , 96, 175704	7.4	142
54	Comparison of colloidal effective charges from different experiments. <i>Journal of Chemical Physics</i> , 2002 , 116, 10981-10988	3.9	83
53	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	3.9	66
52	Crystallization kinetics of polydisperse hard-sphere-like microgel colloids: Ripening dominated crystal growth above melting. <i>Journal of Chemical Physics</i> , 2009 , 130, 084502	3.9	51
51	Response of the elastic properties of colloidal crystals to phase transitions and morphological changes. <i>Journal of Chemical Physics</i> , 1998 , 109, 10068-10074	3.9	51
50	Microscopic investigations of homogeneous nucleation in charged sphere suspensions. <i>Journal of Chemical Physics</i> , 2005 , 123, 174902	3.9	51
49	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	1.8	44
48	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	5.1	35
47	Small changes in particle-size distribution dramatically delay and enhance nucleation in hard sphere colloidal suspensions. <i>Physical Review E</i> , 2006 , 74, 060401	2.4	33
46	Self-organized cooperative swimming at low Reynolds numbers. <i>Langmuir</i> , 2013 , 29, 1738-42	4	32
45	Correlation between dynamical and structural heterogeneities in colloidal hard-sphere suspensions. <i>Nature Physics</i> , 2016 , 12, 712-717	16.2	31
44	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	2.4	31
43	Fast microscopic method for large scale determination of structure, morphology, and quality of thin colloidal crystals. <i>Langmuir</i> , 2006 , 22, 1828-38	4	31
42	Heterogeneous nucleation of colloidal melts under the influence of shearing fields. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S3885-S3902	1.8	31
41	Colloidal crystallization in the quasi-two-dimensional induced by electrolyte gradients. <i>Journal of Chemical Physics</i> , 2012 , 136, 164505	3.9	30
40	Communications: Complete description of re-entrant phase behavior in a charge variable colloidal model system. <i>Journal of Chemical Physics</i> , 2010 , 132, 131102	3.9	28

39	Phase behaviour of deionized binary mixtures of charged colloidal spheres. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 464116	1.8	28
38	Preparation and characterization of particles with small differences in polydispersity. <i>Langmuir</i> , 2007 , 23, 11534-9	4	28
37	Heterogeneous and homogeneous crystal nucleation in colloidal hard-sphere like microgels at low metastabilities. <i>Soft Matter</i> , 2011 , 7, 11267	3.6	26
36	Crystallization in charged two-component suspensions. <i>Journal of Chemical Physics</i> , 2005 , 122, 144901	3.9	25
35	Correlations between morphology, phase behavior and pair interaction in soft sphere solids. <i>Journal of Chemical Physics</i> , 2002 , 116, 5901-5907	3.9	25
34	Ripening-dominated crystallization in polydisperse hard-sphere-like colloids. <i>Physical Review E</i> , 2009 , 79, 010601	2.4	24
33	Competition between heterogeneous and homogeneous nucleation near a flat wall. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 464115	1.8	23
32	Construction and stability of a close-packed structure observed in thin colloidal crystals. <i>Physical Review E</i> , 2007 , 76, 050402	2.4	23
31	Heterogeneous and homogeneous crystal nucleation in a colloidal model system of charged spheres at low metastabilities. <i>Soft Matter</i> , 2011 , 7, 5685	3.6	22
30	Seed- and wall-induced heterogeneous nucleation in charged colloidal model systems under microgravity. <i>Physical Review E</i> , 2011 , 83, 051405	2.4	21
29	Crystallization in suspensions of hard spheres: a Monte Carlo and molecular dynamics simulation study. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 194120	1.8	20
28	Confined colloidal crystals in and out of equilibrium. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 3011-3022	2.3	18
27	Crystalline multilayers of charged colloids in soft confinement: experiment versus theory. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 464123	1.8	18
26	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	3.9	18
25	Exotic crystal superstructures of colloidal crystals in confinement. <i>Physical Review E</i> , 2008 , 77, 061401	2.4	17
24	Effective charges along the melting line of colloidal crystals. <i>Journal of Chemical Physics</i> , 2006 , 125, 1947314	3.4	15
23	Solidification of a colloidal hard sphere like model system approaching and crossing the glass transition. <i>Soft Matter</i> , 2014 , 10, 5380-9	3.6	14
22	Transient Moiré rotation patterns in thin colloidal crystals. <i>Soft Matter</i> , 2010 , 6, 5312	3.6	14

21	Charged colloidal particles in a charged wedge: do they go in or out?. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 404221	1.8	14
20	Structure and transport properties of charged sphere suspensions in (local) electric fields. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 2835-2853	2.3	13
19	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	3.5	13
18	Opaline Hydrogels: Polycrystalline Body-Centered-Cubic Bulk Material with an in Situ Variable Lattice Constant. <i>Chemistry of Materials</i> , 2007 , 19, 6095-6100	9.6	12
17	Enhanced crystal stability in a binary mixture of charged colloidal spheres. <i>Physical Review E</i> , 2009 , 80, 021407	2.4	11
16	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	3.9	11
15	The cage effect in systems of hard spheres. <i>Journal of Chemical Physics</i> , 2017 , 146, 104503	3.9	10
14	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	3.9	9
13	Polymer induced changes of the crystallization scenario in suspensions of hard sphere like microgel particles. <i>Journal of Chemical Physics</i> , 2012 , 136, 234906	3.9	9
12	Heterogeneous nucleation and microstructure formation in colloidal model systems with various interactions. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 389-407	2.3	8
11	Experimental visualization of inoculation using a charged colloidal model system. <i>Soft Matter</i> , 2012 , 8, 11034	3.6	8
10	Easy-use and low-cost fiber-based two-color dynamic light-scattering apparatus. <i>Physical Review E</i> , 2012 , 85, 031401	2.4	8
9	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	1.7	7
8	Space-resolved dynamic light scattering probing inhomogeneous dynamics in soft matter 2013 ,		5
7	A Hitchhiker's Guide to Particle Sizing Techniques. <i>Langmuir</i> , 2020 , 36, 10307-10320	4	5
6	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	3.9	2
5	Dynamic signature of the first order freezing transition in colloidal hard spheres 2013 ,		2
4	Regular Horizontal Patterning on Colloidal Crystals Produced by Vertical Deposition 2008 , 48-56		2

- 3 Solidification Experiments in Single-Component and Binary Colloidal Melts 185-211 2
- 2 Entropic Identification of the First Order Freezing Transition of a Suspension of Hard Sphere Particles. *Physical Review Letters*, **2020**, 124, 205701 74 1
- 1 Consistence of the Mean Field Description of Charged Colloidal Crystal Properties 88-94