

Johan Buitenhuis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1844383/publications.pdf>

Version: 2024-02-01

39
papers

1,045
citations

394421

19
h-index

414414

32
g-index

39
all docs

39
docs citations

39
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Separation of Mixtures of Colloidal Boehmite Rods and Flexible Polymer. <i>Journal of Colloid and Interface Science</i> , 1995, 175, 46-56.	9.4	81
2	Block copolymer micelles: Viscoelasticity and interaction potential of soft spheres. <i>Journal of Chemical Physics</i> , 1997, 107, 262-272.	3.0	75
3	Synthesis of poly(ethylene glycol) (PEG)-grafted colloidal silica particles with improved stability in aqueous solvents. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 446-455.	9.4	65
4	Capturing dynamics with Eiger, a fast-framing X-ray detector. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 1001-1005.	2.4	58
5	Surface molecular view of colloidal gelation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13310-13314.	7.1	57
6	Diffusion of spheres in crowded suspensions of rods. <i>Journal of Chemical Physics</i> , 2005, 122, 044905.	3.0	56
7	Anisotropic Pair Correlations and Structure Factors of Confined Hard-Sphere Fluids: An Experimental and Theoretical Study. <i>Physical Review Letters</i> , 2012, 108, 037802.	7.8	50
8	Thermal diffusion behavior of hard-sphere suspensions. <i>Journal of Chemical Physics</i> , 2006, 125, 204911.	3.0	49
9	Crystallization Kinetics of Colloidal Spheres under Stationary Shear Flow. <i>Langmuir</i> , 2005, 21, 10976-10982.	3.5	45
10	Structure and short-time dynamics in suspensions of charged silica spheres in the entire fluid regime. <i>Journal of Chemical Physics</i> , 2009, 130, 084503.	3.0	44
11	Interfaceâ€solvent effects during colloidal phase transitions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3469-S3479.	1.8	31
12	Synthesis of Uniform Silica Rods, Curved Silica Wires, and Silica Bundles Using Filamentousfd Virus as a Template. <i>Small</i> , 2007, 3, 424-428.	10.0	31
13	Thermophoresis of charged colloidal rods. <i>Soft Matter</i> , 2013, 9, 8697.	2.7	31
14	Diffusion of spheres in isotropic and nematic suspensions of rods. <i>Journal of Chemical Physics</i> , 2006, 124, 044907.	3.0	30
15	Anisotropic de Gennes Narrowing in Confined Fluids. <i>Physical Review Letters</i> , 2016, 116, 167801.	7.8	30
16	Confinement-induced orientational alignment of quasi-2D fluids. <i>Europhysics Letters</i> , 2009, 86, 66001.	2.0	27
17	Density Fluctuations of Hard-Sphere Fluids in Narrow Confinement. <i>Physical Review X</i> , 2016, 6, .	8.9	22
18	Polymer depletion-driven cluster aggregation and initial phase separation in charged nanosized colloids. <i>Journal of Chemical Physics</i> , 2009, 130, 204905.	3.0	21

#	ARTICLE	IF	CITATIONS
19	Static and Dynamic Light Scattering by Concentrated Colloidal Suspensions of Polydisperse Sterically Stabilized Boehmite Rods. <i>Macromolecules</i> , 1994, 27, 7267-7277.	4.8	20
20	Electrophoresis of fd-Virus Particles: Experiments and an Analysis of the Effect of Finite Rod Lengths. <i>Langmuir</i> , 2012, 28, 13354-13363.	3.5	20
21	Experimental determination of resolution function parameters from small-angle neutron scattering data of a colloidal SiO ₂ dispersion. <i>Journal of Applied Crystallography</i> , 2010, 43, 686-692.	4.5	19
22	Scattering of Light from Cylindrical Particles: Coupled Dipole Method Calculations and the Range of Validity of the Rayleigh-Gans-Debye Approximation. <i>Journal of Colloid and Interface Science</i> , 1994, 162, 19-24.	9.4	18
23	Charge Reversal of the Rodlike Colloidal fd Virus through Surface Chemical Modification. <i>Langmuir</i> , 2010, 26, 10593-10599.	3.5	18
24	Colloidal dispersions of octadecyl grafted silica spheres in toluene: A global analysis of small angle neutron scattering contrast variation and concentration dependence measurements. <i>Journal of Chemical Physics</i> , 2006, 125, 044715.	3.0	16
25	Structure and phase diagram of an adhesive colloidal dispersion under high pressure: A small angle neutron scattering, diffusing wave spectroscopy, and light scattering study. <i>Journal of Chemical Physics</i> , 2009, 130, 154903.	3.0	16
26	Self assembled monolayer of silica nanoparticles with improved order by drop casting. <i>RSC Advances</i> , 2020, 10, 18339-18347.	3.6	16
27	Orientational Order in Sediments of Colloidal Rods. <i>Journal of Colloid and Interface Science</i> , 1995, 176, 272-276.	9.4	13
28	Liquid Crystal Phase Transitions in Dispersions of Rodlike Colloidal Particles. , 1995, , 53-112.		12
29	Grating-based holographic X-ray diffraction: theory and application to confined fluids. <i>Journal of Applied Crystallography</i> , 2009, 42, 1129-1138.	4.5	11
30	Negative thixotropy of polymer solutions. 1. A model explaining time-dependent viscosity. <i>Colloid and Polymer Science</i> , 2003, 281, 253-259.	2.1	10
31	Thermophoresis of a Colloidal Rod: Contributions of Charge and Grafted Polymers. <i>Langmuir</i> , 2019, 35, 1000-1007.	3.5	10
32	SANS and dynamic light scattering to investigate the viscosity of toluene under high pressure up to 1800 bar. <i>Measurement Science and Technology</i> , 2008, 19, 034017.	2.6	9
33	Crystal structure of diheterolevulosan II: β -D-Fructofuranose- β -D-fructopyranose 1,2 β :2,1 β dianhydride and molecular mechanics calculations on diheterolevulosan II and IV with chair and boat conformations of the central 1,4-dioxane ring. <i>Journal of Crystallographic and Spectroscopic Research</i> , 1990, 20, 1-8.	0.2	7
34	Negative thixotropy of polymer solutions. 2. A systematic study of the time-dependent viscosity of partially hydrolyzed polyacrylamide. <i>Colloid and Polymer Science</i> , 2003, 281, 260-266.	2.1	7
35	Structure of confined fluids by x-ray interferometry using diffraction gratings. <i>Optics Express</i> , 2008, 16, 20522.	3.4	7
36	Anisotropic hydrodynamic function of dense confined colloids. <i>Physical Review E</i> , 2017, 95, 062601.	2.1	5

#	ARTICLE	IF	CITATIONS
37	Silica Fouling in Reverse Osmosis Systemsâ€“Operando Small-Angle Neutron Scattering Studies. Membranes, 2021, 11, 413.	3.0	4
38	Probing nonlinear velocity profiles of shear-thinning, nematic platelet dispersions in Couette flow using x-ray photon correlation spectroscopy. Physics of Fluids, 2021, 33, 063102.	4.0	4
39	Comments on Shallenberger's chiral principles contained in structure-sweetness relations. Food Chemistry, 1991, 40, 109-112.	8.2	0