Sven Holger Behrens

List of Publications by Year
in descending order

55	4,191	147726	149623
papers	citations	31 h-index	56 g-index

58	58	58	4707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The charge of glass and silica surfaces. Journal of Chemical Physics, 2001, 115, 6716-6721.	1.2	790
2	Novel emulsions stabilized by pH and temperature sensitive microgels. Chemical Communications, 2005, , 331.	2.2	324
3	Charging and Aggregation Properties of Carboxyl Latex Particles:Â Experiments versus DLVO Theory. Langmuir, 2000, 16, 2566-2575.	1.6	272
4	Charge Regulation in the Electrical Double Layer: Ion Adsorption and Surface Interactions. Langmuir, 2016, 32, 380-400.	1.6	237
5	Environmental Responsiveness of Microgel Particles and Particle-Stabilized Emulsions. Macromolecules, 2006, 39, 8171-8177.	2.2	211
6	Absolute Aggregation Rate Constants of Hematite Particles in Aqueous Suspensions: A Comparison of Two Different Surface Morphologies. Journal of Colloid and Interface Science, 1997, 196, 241-253.	5.0	201
7	Electrostatic Interaction of Colloidal Surfaces with Variable Charge. Journal of Physical Chemistry B, 1999, 103, 2918-2928.	1.2	144
8	Image Charge Effects on the Formation of Pickering Emulsions. Journal of Physical Chemistry Letters, 2012, 3, 2986-2990.	2.1	136
9	Imaging the Coil-to-Globule Conformational Transition of a Weak Polyelectrolyte by Tuning the Polyelectrolyte Charge Density. Nano Letters, 2004, 4, 149-152.	4.5	125
10	Pair interaction of charged colloidal spheres near a charged wall. Physical Review E, 2001, 64, 050401.	0.8	120
11	Influence of Nanoscale Particle Roughness on the Stability of Pickering Emulsions. Langmuir, 2012, 28, 12038-12043.	1.6	118
12	Exact Poisson-Boltzmann solution for the interaction of dissimilar charge-regulating surfaces. Physical Review E, 1999, 60, 7040-7048.	0.8	117
13	Electrostatic Interactions Modulate the Conformation of Collagen I. Biophysical Journal, 2007, 92, 2108-2119.	0.2	100
14	Particle Charging and Charge Screening in Nonpolar Dispersions with Nonionic Surfactants. Langmuir, 2010, 26, 16941-16948.	1.6	94
15	Interaction between Charged Surfaces on the Poissonâ"Boltzmann Level:Â The Constant Regulation Approximation. Journal of Physical Chemistry B, 2004, 108, 19467-19475.	1.2	93
16	Electric Charging in Nonpolar Liquids Because of Nonionizable Surfactants. Langmuir, 2010, 26, 3203-3207.	1.6	90
17	Smart colloidosomes with a dissolution trigger. Soft Matter, 2010, 6, 3163.	1.2	66
18	Covalent Immobilization of Cellulose Layers onto Maleic Anhydride Copolymer Thin Films. Biomacromolecules, 2005, 6, 1628-1634.	2.6	61

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19	Observation of the Mobility Maximum Predicted by the Standard Electrokinetic Model for Highly Charged Amidine Latex Particles. Langmuir, 2000, 16, 5209-5212.	1.6	55
20	Electric double layer interaction of ionizable surfaces: Charge regulation for arbitrary potentials. Journal of Chemical Physics, 1999, 111, 382-385.	1.2	53
21	Predicting the Wettability of Quartz Surfaces Exposed to Dense Nonaqueous Phase Liquids. Environmental Science & Technology, 2001, 35, 2207-2213.	4.6	47
22	Electrostatic Double Layer Forces in the Case of Extreme Charge Regulation. Journal of Physical Chemistry B, 2008, 112, 10795-10799.	1.2	44
23	Permeability control in stimulus-responsive colloidosomes. Soft Matter, 2011, 7, 1948-1956.	1.2	41
24	Interfacial Activity of Nonamphiphilic Particles in Fluidâ€“Fluid Interfaces. Langmuir, 2017, 33, 4511-4519.	1.6	41
25	Interaction forces and molecular adhesion between pre-adsorbed poly(ethylene imine) layers. Journal of Colloid and Interface Science, 2006, 296, 496-506.	5.0	37
26	Correlating Aggregation Kinetics and Stationary Diffusion in Proteinâ^'Sodium Salt Systems Observed with Dynamic Light Scattering. Journal of Physical Chemistry B, 2010, 114, 4383-4387.	1.2	37
27	Capillary Foams: Stabilization and Functionalization of Porous Liquids and Solids. Langmuir, 2015, 31, 2669-2676.	1.6	37
28	Surfactant mediated charging of polymer particles in a nonpolar liquid. Journal of Colloid and Interface Science, 2013, 392, 83-89.	5.0	36
29	Charging and swelling of cellulose films. Journal of Colloid and Interface Science, 2007, 309, 360-365.	5.0	34
30	Interaction and Structure of Surfaces Coated by Poly(vinyl amines) of Different Line Charge Densities. Journal of Physical Chemistry B, 2008, 112, 14609-14619.	1.2	34
31	The cellulose-binding domain of cellobiohydrolase Cel7A from Trichoderma reesei is also a thermostabilizing domain. Journal of Biotechnology, 2011, 155, 370-376.	1.9	32
32	Mechanisms of Particle Charging by Surfactants in Nonpolar Dispersions. Langmuir, 2015, 31, 11989-11999.	1.6	31
33	Influence of the Secondary Interaction Energy Minimum on the Early Stages of Colloidal Aggregation. Journal of Colloid and Interface Science, 2000, 225, 460-465.	5.0	28
34	Salt-Induced Aggregation of a Monoclonal Human Immunoglobulin G1. Journal of Pharmaceutical Sciences, 2013, 102, 377-386.	1.6	27
35	Bubble Meets Droplet: Particleâ€Assisted Reconfiguration of Wetting Morphologies in Colloidal Multiphase Systems. Small, 2016, 12, 3309-3319.	5.2	23
36	Contributions of the Prion Protein Sequence, Strain, and Environment to the Species Barrier. Journal of Biological Chemistry, 2016, 291, 1277-1288.	1.6	23

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37	Ion-specific Effects on Prion Nucleation and Strain Formation. Journal of Biological Chemistry, 2013, 288, 30300-30308.	1.6	21
38	Stabilization of Liquid Foams through the Synergistic Action of Particles and an Immiscible Liquid. Angewandte Chemie - International Edition, 2014, 53, 13385-13389.	7.2	21
39	Charging Mechanism for Polymer Particles in Nonpolar Surfactant Solutions: Influence of Polymer Type and Surface Functionality. Langmuir, 2016, 32, 4827-4836.	1.6	21
40	Oil-coated bubbles in particle suspensions, capillary foams, and related opportunities in colloidal multiphase systems. Current Opinion in Colloid and Interface Science, 2020, 50, 101384.	3.4	20
41	Gauging Colloidal and Thermal Stability in Human IgG1â€“Sugar Solutions through Diffusivity Measurements. Journal of Physical Chemistry B, 2014, 118, 2803-2809.	1.2	17
42	Janus Particles in a Nonpolar Solvent. Langmuir, 2016, 32, 3095-3099.	1.6	16
43	The dynamics of rising oil-coated bubbles: experiments and simulations. Soft Matter, 2018, 14, 2724-2734.	1.2	15
44	Capillary Foams: Formation Stages and Effects of System Parameters. Industrial & Engineering Chemistry Research, 2017, 56, 9533-9540.	1.8	13
45	Rheology of capillary foams. Soft Matter, 2020, 16, 6725-6732.	1.2	11
46	Characterizing the Acid/Base Behavior of Oil-Soluble Surfactants at the Interface of Nonpolar Solvents with a Polar Phase. Journal of Physical Chemistry B, 2015, 119, 6628-6637.	1.2	10
47	Process Principles for Large-Scale Nanomanufacturing. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 201-226.	3.3	10
48	Modulation of the Formation of AÎ²-and Sup35NM-Based Amyloids by Complex Interplay of Specific and Nonspecific Ion Effects. Journal of Physical Chemistry B, 2018, 122, 4972-4981.	1.2	9
49	Interfaces Charged by a Nonionic Surfactant. Journal of Physical Chemistry B, 2018, 122, 6101-6106.	1.2	8
50	Interactions in Colloidal Suspensions. , 2001, , 87-116.		7
51	The Geode Process: Hollow Silica Microcapsules as a High Surface Area Substrate for Semiconductor Nanowire Growth. ACS Applied Nano Materials, 2020, 3, 905-913.	2.4	5
52	Structureâ€“Property Relationship in Capillary Foams. Langmuir, 2021, 37, 10510-10520.	1.6	5
53	Modeling Amyloid Aggregation Kinetics: A Case Study with Sup35NM. Journal of Physical Chemistry B, 2021, 125, 4955-4963.	1.2	3
54	A generalized approach for measuring microcapsule permeability with Fluorescence Recovery After Photobleaching. Journal of Materials Science, 2013, 48, 2215-2223.	1.7	1

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55	Programming Semiconductor Nanowire Composition with Sub-100 nm Resolution via the Geode Process. Nano Letters, 2022, , .	4.5	0