Sven Holger Behrens

List of Publications by Citations

55 papers	3,664 citations	30 h-index	58 g-index
58 ext. papers	3,931 ext. citations	5.2 avg, IF	5.47 L-index

#	Paper	IF	Citations
55	The charge of glass and silica surfaces. *Journal of Chemical Physics*, **2001**, 115, 6716-6721	3.9	670
54	Novel emulsions stabilized by pH and temperature sensitive microgels. *Chemical Communications*, **2005**, 331-3	5.8	290
53	Charging and Aggregation Properties of Carboxyl Latex Particles:Experiments versus DLVO Theory. *Langmuir*, **2000**, 16, 2566-2575	4	249
52	Environmental Responsiveness of Microgel Particles and Particle-Stabilized Emulsions. *Macromolecules*, **2006**, 39, 8171-8177	5.5	191
51	Charge Regulation in the Electrical Double Layer: Ion Adsorption and Surface Interactions. *Langmuir* , **2016**, 32, 380-400	4	187
50	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	9.3	187
49	Electrostatic Interaction of Colloidal Surfaces with Variable Charge. *Journal of Physical Chemistry B*, **1999**, 103, 2918-2928	3.4	135
48	Imaging the Coil-to-Globule Conformational Transition of a Weak Polyelectrolyte by Tuning the Polyelectrolyte Charge Density. *Nano Letters*, **2004**, 4, 149-152	11.5	117
47	Pair interaction of charged colloidal spheres near a charged wall. *Physical Review E*, **2001**, 64, 050401	2.4	111
46	Exact Poisson-Boltzmann solution for the interaction of dissimilar charge-regulating surfaces. *Physical Review E*, **1999**, 60, 7040-8	2.4	110
45	Image Charge Effects on the Formation of Pickering Emulsions. *Journal of Physical Chemistry Letters* , **2012**, 3, 2986-90	6.4	101
44	Influence of nanoscale particle roughness on the stability of Pickering emulsions. *Langmuir*, **2012**, 28, 12038-43	4	93
43	Electrostatic interactions modulate the conformation of collagen I. *Biophysical Journal*, **2007**, 92, 2108-19	2.9	93
42	Particle charging and charge screening in nonpolar dispersions with nonionic surfactants. *Langmuir*, **2010**, 26, 16941-8	4	87
41	Interaction between Charged Surfaces on the PoissonBoltzmann Level: The Constant Regulation Approximation. *Journal of Physical Chemistry B*, **2004**, 108, 19467-19475	3.4	86
40	Electric charging in nonpolar liquids because of nonionizable surfactants. *Langmuir*, **2010**, 26, 3203-7	4	83
39	Smart colloidosomes with a dissolution trigger. *Soft Matter*, **2010**, 6, 3163	3.6	61

38	Covalent immobilization of cellulose layers onto maleic anhydride copolymer thin films. *Biomacromolecules*, **2005**, 6, 1628-34	6.9	53
37	Observation of the Mobility Maximum Predicted by the Standard Electrokinetic Model for Highly Charged Amidine Latex Particles. *Langmuir*, **2000**, 16, 5209-5212	4	50
36	Electric double layer interaction of ionizable surfaces: Charge regulation for arbitrary potentials. *Journal of Chemical Physics*, **1999**, 111, 382-385	3.9	48
35	Predicting the wettability of quartz surfaces exposed to dense nonaqueous phase liquids. *Environmental Science & Technology*, **2001**, 35, 2207-13	10.3	45
34	Permeability control in stimulus-responsive colloidosomes. *Soft Matter*, **2011**, 7, 1948-1956	3.6	39
33	Electrostatic double layer forces in the case of extreme charge regulation. *Journal of Physical Chemistry B*, **2008**, 112, 10795-9	3.4	39
32	Interfacial Activity of Nonamphiphilic Particles in Fluid-Fluid Interfaces. *Langmuir*, **2017**, 33, 4511-4519	4	36
31	Interaction forces and molecular adhesion between pre-adsorbed poly(ethylene imine) layers. *Journal of Colloid and Interface Science*, **2006**, 296, 496-506	9.3	36
30	Interaction and structure of surfaces coated by poly(vinyl amines) of different line charge densities. *Journal of Physical Chemistry B*, **2008**, 112, 14609-19	3.4	34
29	Surfactant mediated charging of polymer particles in a nonpolar liquid. *Journal of Colloid and Interface Science*, **2013**, 392, 83-89	9.3	32
28	The cellulose-binding domain of cellobiohydrolase Cel7A from Trichoderma reesei is also a thermostabilizing domain. *Journal of Biotechnology*, **2011**, 155, 370-6	3.7	31
27	Correlating aggregation kinetics and stationary diffusion in protein-sodium salt systems observed with dynamic light scattering. *Journal of Physical Chemistry B*, **2010**, 114, 4383-7	3.4	30
26	Charging and swelling of cellulose films. *Journal of Colloid and Interface Science*, **2007**, 309, 360-5	9.3	30
25	Mechanisms of Particle Charging by Surfactants in Nonpolar Dispersions. *Langmuir*, **2015**, 31, 11989-99	4	29
24	Capillary foams: stabilization and functionalization of porous liquids and solids. *Langmuir*, **2015**, 31, 2669476		29
23	Influence of the Secondary Interaction Energy Minimum on the Early Stages of Colloidal Aggregation. *Journal of Colloid and Interface Science*, **2000**, 225, 460-465	9.3	26
22	Salt-induced aggregation of a monoclonal human immunoglobulin G1. *Journal of Pharmaceutical Sciences*, **2013**, 102, 377-86	3.9	25
21	Ion-specific effects on prion nucleation and strain formation. *Journal of Biological Chemistry*, **2013**, 288, 30300-30308	5.4	20

20	Charging Mechanism for Polymer Particles in Nonpolar Surfactant Solutions: Influence of Polymer Type and Surface Functionality. *Langmuir*, **2016**, 32, 4827-36	4	18
19	Bubble Meets Droplet: Particle-Assisted Reconfiguration of Wetting Morphologies in Colloidal Multiphase Systems. *Small*, **2016**, 12, 3309-19	11	17
18	Contributions of the Prion Protein Sequence, Strain, and Environment to the Species Barrier. *Journal of Biological Chemistry*, **2016**, 291, 1277-88	5.4	17
17	Gauging colloidal and thermal stability in human IgG1-sugar solutions through diffusivity measurements. *Journal of Physical Chemistry B*, **2014**, 118, 2803-9	3.4	16
16	Stabilization of liquid foams through the synergistic action of particles and an immiscible liquid. *Angewandte Chemie - International Edition*, **2014**, 53, 13385-9	16.4	16
15	Stabilization of Liquid Foams through the Synergistic Action of Particles and an Immiscible Liquid. *Angewandte Chemie*, **2014**, 126, 13603-13607	3.6	14
14	Janus Particles in a Nonpolar Solvent. *Langmuir*, **2016**, 32, 3095-9	4	12
13	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, 6628-37	3.4	10
12	The dynamics of rising oil-coated bubbles: experiments and simulations. *Soft Matter*, **2018**, 14, 2724-2734	3.6	10
11	Capillary Foams: Formation Stages and Effects of System Parameters. *Industrial & Engineering Chemistry Research*, **2017**, 56, 9533-9540	3.9	9
10	Process Principles for Large-Scale Nanomanufacturing. *Annual Review of Chemical and Biomolecular Engineering*, **2017**, 8, 201-226	8.9	8
9	Rheology of capillary foams. *Soft Matter*, **2020**, 16, 6725-6732	3.6	6
8	Modulation of the Formation of A□and Sup35NM-Based Amyloids by Complex Interplay of Specific and Nonspecific Ion Effects. *Journal of Physical Chemistry B*, **2018**, 122, 4972-4981	3.4	6
7	Interfaces Charged by a Nonionic Surfactant. *Journal of Physical Chemistry B*, **2018**, 122, 6101-6106	3.4	6
6	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	7.6	6
5	Interactions in Colloidal Suspensions **2001**, 87-116		4
4	A generalized approach for measuring microcapsule permeability with Fluorescence Recovery After Photobleaching. *Journal of Materials Science*, **2013**, 48, 2215-2223	4.3	1
3	The Geode Process: Hollow Silica Microcapsules as a High Surface Area Substrate for Semiconductor Nanowire Growth. *ACS Applied Nano Materials*, **2020**, 3, 905-913	5.6	1

2	Modeling Amyloid Aggregation Kinetics: A Case Study with Sup35NM. *Journal of Physical Chemistry B*, **2021**, 125, 4955-4963	3.4	1
1	Structure-Property Relationship in Capillary Foams. *Langmuir*, **2021**, 37, 10510-10520	4	0