

# Michal Borkovec

## List of Publications by Year in descending order

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219  
papers

19,540  
citations

17405

63  
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11899

134  
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223  
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223  
docs citations

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times ranked

13990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction-rate theory: fifty years after Kramers. <i>Reviews of Modern Physics</i> , 1990, 62, 251-341.	16.4	5,326
2	Ion binding to natural organic matter: competition, heterogeneity, stoichiometry and thermodynamic consistency. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 151, 147-166.	2.3	708
3	Mobile Subsurface Colloids and Their Role in Contaminant Transport. <i>Advances in Agronomy</i> , 1999, 66, 121-193.	2.4	531
4	Coagulation Rate Measurements of Colloidal Particles by Simultaneous Static and Dynamic Light Scattering. <i>Langmuir</i> , 1996, 12, 5541-5549.	1.6	394
5	Classical and modern methods in reaction rate theory. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3711-3725.	2.9	377
6	Aggregation and Charging of Colloidal Silica Particles: Effect of Particle Size. <i>Langmuir</i> , 2005, 21, 5761-5769.	1.6	352
7	Colloid-Facilitated Transport of Strongly Sorbing Contaminants in Natural Porous Media: A Laboratory Column Study. <i>Environmental Science &amp; Technology</i> , 1996, 30, 3118-3123.	4.6	305
8	Microscopic Protonation Equilibria of Poly(amidoamine) Dendrimers from Macroscopic Titrations. <i>Macromolecules</i> , 2003, 36, 4201-4207.	2.2	305
9	Polyelectrolyte adsorption, interparticle forces, and colloidal aggregation. <i>Soft Matter</i> , 2014, 10, 2479.	1.2	284
10	Charging and Aggregation Properties of Carboxyl Latex Particles: Experiments versus DLVO Theory. <i>Langmuir</i> , 2000, 16, 2566-2575.	1.6	272
11	Experimental determination of colloid deposition rates and collision efficiencies in natural porous media. <i>Water Resources Research</i> , 1997, 33, 1129-1137.	1.7	257
12	Conductivity of water-in-oil microemulsions: a quantitative charge fluctuation model. <i>The Journal of Physical Chemistry</i> , 1989, 93, 314-317.	2.9	255
13	Strict self-assembly of polymetallic helicates: the concepts behind the semantics. <i>Coordination Chemistry Reviews</i> , 2005, 249, 705-726.	9.5	253
14	Charge Regulation in the Electrical Double Layer: Ion Adsorption and Surface Interactions. <i>Langmuir</i> , 2016, 32, 380-400.	1.6	237
15	Transport of in Situ Mobilized Colloidal Particles in Packed Soil Columns. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3562-3569.	4.6	219
16	Specific Ion Effects on Particle Aggregation Induced by Monovalent Salts within the Hofmeister Series. <i>Langmuir</i> , 2015, 31, 3799-3807.	1.6	167
17	Non-Markovian activated rate processes: Comparison of current theories with numerical simulation data. <i>Journal of Chemical Physics</i> , 1986, 84, 1788-1794.	1.2	161
18	Effects of heat treatment on the aggregation and charging of Stober-type silica. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 139-147.	5.0	145

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19	Electrostatic Interaction of Colloidal Surfaces with Variable Charge. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2918-2928.	1.2	144
20	Proton Binding Characteristics of Branched Polyelectrolytes. <i>Macromolecules</i> , 1997, 30, 2151-2158.	2.2	142
21	Acid-base properties of poly(propylene imine)dendrimers. <i>Polymer</i> , 1998, 39, 2657-2664.	1.8	131
22	Determination of nonlinear adsorption isotherms from column experiments: an alternative to batch studies. <i>Environmental Science &amp; Technology</i> , 1993, 27, 943-948.	4.6	130
23	Super-Stoichiometric Charge Neutralization in Particle-Polyelectrolyte Systems. <i>Langmuir</i> , 2005, 21, 3688-3698.	1.6	130
24	Attractive and Repulsive Electrostatic Forces between Positively Charged Latex Particles in the Presence of Anionic Linear Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3170-3177.	1.2	130
25	Two percolation processes in microemulsions. <i>The Journal of Physical Chemistry</i> , 1988, 92, 206-211.	2.9	129
26	Imaging the Coil-to-Globule Conformational Transition of a Weak Polyelectrolyte by Tuning the Polyelectrolyte Charge Density. <i>Nano Letters</i> , 2004, 4, 149-152.	4.5	125
27	Interactions between solid surfaces with adsorbed polyelectrolytes of opposite charge. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 429-437.	3.4	123
28	Molecular dynamics study of an isomerizing diatomic in a Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 1988, 89, 4833-4847.	1.2	122
29	Calculation of dynamic friction on intramolecular degrees of freedom. <i>The Journal of Physical Chemistry</i> , 1987, 91, 4995-4998.	2.9	120
30	Exact Poisson-Boltzmann solution for the interaction of dissimilar charge-regulating surfaces. <i>Physical Review E</i> , 1999, 60, 7040-7048.	0.8	117
31	Colloid-Facilitated Transport of Strongly Sorbing Contaminants in Natural Porous Media: Mathematical Modeling and Laboratory Column Experiments. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6378-6386.	4.6	113
32	Aggregation and deposition kinetics of mobile colloidal particles in natural porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 191, 179-188.	2.3	112
33	Heteroaggregation in Binary Mixtures of Oppositely Charged Colloidal Particles. <i>Langmuir</i> , 2006, 22, 1038-1047.	1.6	112
34	Ordered and Oriented Supramolecular n/p-Heterojunction Surface Architectures: Completion of the Primary Color Collection. <i>Journal of the American Chemical Society</i> , 2009, 131, 11106-11116.	6.6	111
35	Symmetry Numbers and Statistical Factors in Self-Assembly and Multivalency. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12195-12203.	1.2	110
36	Electrostatic Stabilization of Charged Colloidal Particles with Adsorbed Polyelectrolytes of Opposite Charge. <i>Langmuir</i> , 2010, 26, 15109-15111.	1.6	109

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37	Aggregation of Colloidal Particles in the Presence of Oppositely Charged Polyelectrolytes: A Effect of Surface Charge Heterogeneities. <i>Langmuir</i> , 2001, 17, 5225-5231.	1.6	105
38	Charging and Aggregation of Latex Particles by Oppositely Charged Dendrimers. <i>Langmuir</i> , 2004, 20, 7465-7473.	1.6	105
39	Origin of 1-pK and 2-pK Models for Ionizable Water-Solid Interfaces. <i>Langmuir</i> , 1997, 13, 2608-2613.	1.6	103
40	Regularized Least-Squares Methods for the Calculation of Discrete and Continuous Affinity Distributions for Heterogeneous Sorbents. <i>Environmental Science &amp; Technology</i> , 1995, 29, 413-425.	4.6	101
41	Adsorption of Poly(amido amine) (PAMAM) Dendrimers on Silica: Importance of Electrostatic Three-Body Attraction. <i>Langmuir</i> , 2008, 24, 465-473.	1.6	99
42	Atomic Force Microscopy Study of the Adsorption and Electrostatic Self-Organization of Poly(amidoamine) Dendrimers on Mica. <i>Langmuir</i> , 2004, 20, 3264-3270.	1.6	98
43	Measurement of Absolute Coagulation Rate Constants for Colloidal Particles: Comparison of Single and Multiparticle Light Scattering Techniques. <i>Journal of Colloid and Interface Science</i> , 1997, 192, 463-470.	5.0	95
44	Interaction between Charged Surfaces on the Poisson-Boltzmann Level: The Constant Regulation Approximation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19467-19475.	1.2	93
45	Importance of Charge Regulation in Attractive Double-Layer Forces between Dissimilar Surfaces. <i>Physical Review Letters</i> , 2010, 104, 228301.	2.9	89
46	Attractive Forces between Charged Colloidal Particles Induced by Multivalent Ions Revealed by Confronting Aggregation and Direct Force Measurements. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 648-652.	2.1	89
47	Aggregation of Negatively Charged Colloidal Particles in the Presence of Multivalent Cations. <i>Langmuir</i> , 2014, 30, 733-741.	1.6	88
48	Simple thermodynamics for unravelling sophisticated self-assembly processes. <i>Dalton Transactions</i> , 2006, , 1473.	1.6	87
49	Poisson-Boltzmann description of interaction forces and aggregation rates involving charged colloidal particles in asymmetric electrolytes. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 111-120.	5.0	87
50	Ion-Ion Correlation and Charge Reversal at Titrating Solid Interfaces. <i>Langmuir</i> , 2009, 25, 7209-7213.	1.6	85
51	Charging and Aggregation of Positively Charged Latex Particles in the Presence of Anionic Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8626-8633.	1.2	82
52	Synthesis and Protonation Behavior of Comblike Poly(ethyleneimine). <i>Macromolecules</i> , 2003, 36, 2500-2507.	2.2	80
53	Investigating forces between charged particles in the presence of oppositely charged polyelectrolytes with the multi-particle colloidal probe technique. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 85-98.	7.0	79
54	Proton binding by linear, branched, and hyperbranched polyelectrolytes. <i>Polymer</i> , 2010, 51, 5649-5662.	1.8	78

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55	Release of colloidal particles in natural porous media by monovalent and divalent cations. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 155-175.	1.6	77
56	Reaction dynamics in the low pressure regime: The Kramers model and collisional models of molecules with many degrees of freedom. <i>Journal of Chemical Physics</i> , 1985, 82, 794-799.	1.2	76
57	Probing the validity of the Derjaguin approximation for heterogeneous colloidal particles. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2531.	1.3	75
58	Ion binding to polyelectrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 280-289.	3.4	75
59	Programming Heteropolymetallic Lanthanide Helicates: Thermodynamic Recognition of Different Metal Ions Along the Strands. <i>Chemistry - A European Journal</i> , 2004, 10, 1091-1105.	1.7	72
60	From micelles to microemulsion droplets: Size distributions, shape fluctuations, and interfacial tensions. <i>Journal of Chemical Physics</i> , 1989, 91, 6268-6281.	1.2	71
61	Deposition of nanosized latex particles onto silica and cellulose surfaces studied by optical reflectometry. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 460-471.	5.0	67
62	Thin adsorbed films of a strong cationic polyelectrolyte on silica substrates. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 28-35.	5.0	66
63	Ionization Processes and Proton Binding in Polyprotic Systems: Small Molecules, Proteins, Interfaces, and Polyelectrolytes. , 2001, , 99-339.		65
64	Attractive Electrostatic Forces between Identical Colloidal Particles Induced by Adsorbed Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8458-8461.	1.2	63
65	Colloidal Stability in Asymmetric Electrolytes: Modifications of the Schulze-Hardy Rule. <i>Langmuir</i> , 2017, 33, 1695-1704.	1.6	63
66	Forces between colloidal particles in aqueous solutions containing monovalent and multivalent ions. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 27, 9-17.	3.4	63
67	Long-Term Release Kinetics of Colloidal Particles from Natural Porous Media. <i>Environmental Science &amp; Technology</i> , 1999, 33, 4054-4060.	4.6	62
68	Structure of Adsorbed Polyelectrolyte Monolayers Investigated by Combining Optical Reflectometry and Piezoelectric Techniques. <i>Langmuir</i> , 2012, 28, 5642-5651.	1.6	62
69	Interaction Forces, Heteroaggregation, and Deposition Involving Charged Colloidal Particles. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6346-6355.	1.2	62
70	A Simple Thermodynamic Model for Quantitatively Addressing Cooperativity in Multicomponent Self-Assembly Processes—Part 1: Theoretical Concepts and Application to Monometallic Coordination Complexes and Bimetallic Helicates Possessing Identical Binding Sites. <i>Chemistry - A European Journal</i> , 2005, 11, 5217-5226.	1.7	61
71	Ising Models of Polyprotic Acids and Bases. <i>The Journal of Physical Chemistry</i> , 1994, 98, 6038-6045.	2.9	60
72	Affinity Distribution Description of Competitive Ion Binding to Heterogeneous Materials. <i>Langmuir</i> , 1996, 12, 6127-6137.	1.6	60

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73	Molecular mass dependence of adsorbed amount and hydrodynamic thickness of polyelectrolyte layers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12716.	1.3	59
74	Diffusional deposition of colloidal particles: electrostatic interaction and size polydispersity effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 165, 79-93.	2.3	58
75	Observation of the Mobility Maximum Predicted by the Standard Electrokinetic Model for Highly Charged Amidine Latex Particles. <i>Langmuir</i> , 2000, 16, 5209-5212.	1.6	55
76	Measurements of dispersion forces between colloidal latex particles with the atomic force microscope and comparison with Lifshitz theory. <i>Journal of Chemical Physics</i> , 2014, 140, 104906.	1.2	55
77	Particle aggregation mechanisms in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9515-9524.	1.3	55
78	Dispersion forces acting between silica particles across water: influence of nanoscale roughness. <i>Nanoscale Horizons</i> , 2016, 1, 325-330.	4.1	55
79	Predicting Aggregation Rates of Colloidal Particles from Direct Force Measurements. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11853-11862.	1.2	54
80	Predicting Multicomponent Adsorption and Transport of Fluoride at Variable pH in a Goethite-Silica Sand System. <i>Environmental Science &amp; Technology</i> , 1996, 30, 481-488.	4.6	53
81	Electric double layer interaction of ionizable surfaces: Charge regulation for arbitrary potentials. <i>Journal of Chemical Physics</i> , 1999, 111, 382-385.	1.2	53
82	A Simple Thermodynamic Model for Quantitatively Addressing Cooperativity in Multicomponent Self-Assembly Processes—Part 2: Extension to Multimetallic Helicates Possessing Different Binding Sites. <i>Chemistry - A European Journal</i> , 2005, 11, 5227-5237.	1.7	53
83	Forces between solid surfaces in aqueous electrolyte solutions. <i>Advances in Colloid and Interface Science</i> , 2020, 275, 102078.	7.0	53
84	Shortcomings of current theories of non-Markovian activated rate processes. <i>Journal of Chemical Physics</i> , 1985, 83, 3172-3174.	1.2	52
85	Direct Force Measurements between Cellulose Surfaces and Colloidal Silica Particles. <i>Biomacromolecules</i> , 2005, 6, 3057-3066.	2.6	52
86	Destabilization of Colloidal Suspensions by Multivalent Ions and Polyelectrolytes: From Screening to Overcharging. <i>Langmuir</i> , 2012, 28, 6211-6215.	1.6	52
87	Measurement of Sorption Isotherms with Flow-Through Reactors. <i>Environmental Science &amp; Technology</i> , 1995, 29, 2317-2321.	4.6	51
88	Ionization Equilibria and Conformational Transitions in Polyprotic Molecules and Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10937-10950.	1.2	51
89	Mechanism of Chitosan Adsorption on Silica from Aqueous Solutions. <i>Langmuir</i> , 2014, 30, 4980-4988.	1.6	51
90	A Simple Thermodynamic Model for Rationalizing the Formation of Self-Assembled Multimetallic Edifices: Application to Triple-Stranded Helicates. <i>Journal of the American Chemical Society</i> , 2004, 126, 11589-11601.	6.6	50

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91	Aggregation of Colloidal Particles in the Presence of Multivalent Co-Ions: The Inverse Schulze-Hardy Rule. <i>Langmuir</i> , 2015, 31, 6610-6614.	1.6	50
92	Charge regulation effects on electrostatic patch-charge attraction induced by adsorbed dendrimers. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4863.	1.3	49
93	Interpretation of Competitive Adsorption Isotherms in Terms of Affinity Distributions. <i>Journal of Colloid and Interface Science</i> , 1997, 191, 247-255.	5.0	48
94	Predicting the Wettability of Quartz Surfaces Exposed to Dense Nonaqueous Phase Liquids. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2207-2213.	4.6	47
95	Binding of Metal Ions to Polyelectrolytes and Their Oligomeric Counterparts: An Application of a Generalized Potts Model. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6666-6674.	1.2	46
96	Topologically Matching Supramolecular n/pH Heterojunction Architectures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6461-6464.	7.2	46
97	Statistical mechanical approach to competitive binding of metal ions to multi-center receptors. <i>Dalton Transactions</i> , 2004, , 4096-4105.	1.6	45
98	Electrostatic Double Layer Forces in the Case of Extreme Charge Regulation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10795-10799.	1.2	44
99	Adsorption of monovalent and divalent cations on planar water-silica interfaces studied by optical reflectivity and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2011, 135, 064701.	1.2	44
100	Electric double-layer potentials and surface regulation properties measured by colloidal-probe atomic force microscopy. <i>Physical Review E</i> , 2014, 90, 012301.	0.8	44
101	Tuneable Intramolecular Intermetallic Interactions as a New Tool for Programming Linear Heterometallic $4f^m-4f$ Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 9312-9322.	1.9	43
102	Adsorption of poly(L-lysine) on silica probed by optical reflectometry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 360, 20-25.	2.3	43
103	Affinity distributions and acid-base properties of homogeneous and heterogeneous sorbents: exact results versus experimental data inversion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 107, 285-296.	2.3	42
104	Linear Polynuclear Helicates as a Link between Discrete Supramolecular Complexes and Programmed Infinite Polymetallic Chains. <i>Chemistry - A European Journal</i> , 2008, 14, 2994-3005.	1.7	42
105	Surfactant monolayer rigidities from Kerr effect measurements on microemulsions. <i>Chemical Physics Letters</i> , 1989, 157, 457-461.	1.2	41
106	Response of Adsorbed Polyelectrolyte Monolayers to Changes in Solution Composition. <i>Langmuir</i> , 2012, 28, 17506-17516.	1.6	41
107	Release and transport of colloidal particles in natural porous media: 2. Experimental results and effects of ligands. <i>Water Resources Research</i> , 2001, 37, 571-582.	1.7	40
108	Nano-patterning of solid substrates by adsorbed dendrimers. <i>Chemical Communications</i> , 2007, , 266-268.	2.2	40



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109	Novel self-associative and multiphasic nanostructured soft carriers based on amphiphilic hyaluronic acid derivatives. <i>Carbohydrate Polymers</i> , 2012, 87, 444-451.	5.1	40
110	Adsorption of polyelectrolytes to like-charged substrates induced by multivalent counterions as exemplified by poly(styrene sulfonate) and silica. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10348-10352.	1.3	39
111	A Cluster Expansion Method for the Complete Resolution of Microscopic Ionization Equilibria from NMR Titrations. <i>Analytical Chemistry</i> , 2000, 72, 3272-3279.	3.2	38
112	Interaction forces and molecular adhesion between pre-adsorbed poly(ethylene imine) layers. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 496-506.	5.0	37
113	Stability of negatively charged latex particles in the presence of a strong cationic polyelectrolyte at elevated ionic strengths. <i>Journal of Colloid and Interface Science</i> , 2010, 347, 202-208.	5.0	37
114	Probing Nanometer-Thick Polyelectrolyte Layers Adsorbed on Oppositely Charged Particles by Dynamic Light Scattering. <i>Macromolecules</i> , 2010, 43, 9108-9116.	2.2	37
115	Charge Reversal of Sulfate Latex Particles by Adsorbed Linear Poly(ethylene imine) Probed by Multiparticle Colloidal Probe Technique. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9098-9105.	1.2	37
116	Accurate Predictions of Forces in the Presence of Multivalent Ions by Poisson-Boltzmann Theory. <i>Langmuir</i> , 2014, 30, 4551-4555.	1.6	37
117	Forces between Negatively Charged Interfaces in the Presence of Cationic Multivalent Oligoamines Measured with the Atomic Force Microscope. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15482-15490.	1.5	37
118	Heteroaggregation of oppositely charged particles in the presence of multivalent ions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15160-15171.	1.3	36
119	Colloidal Particles at Water-Glass Interface: Deposition Kinetics and Surface Heterogeneity. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 314-321.	5.0	35
120	Transition from Completely Reversible to Irreversible Adsorption of Poly(amido amine) Dendrimers on Silica. <i>Langmuir</i> , 2009, 25, 2928-2934.	1.6	35
121	Charging and aggregation of negatively charged colloidal latex particles in the presence of multivalent oligoamine cations. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 34-41.	5.0	35
122	Phenomenological theories of globular microemulsions. <i>Advances in Colloid and Interface Science</i> , 1992, 37, 195-217.	7.0	34
123	Modeling of Heavy Metal Transport in a Contaminated Soil. <i>Journal of Environmental Quality</i> , 1994, 23, 1239-1248.	1.0	34
124	Interaction and Structure of Surfaces Coated by Poly(vinyl amines) of Different Line Charge Densities. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14609-14619.	1.2	34
125	Charging and stability of anionic latex particles in the presence of linear poly(ethylene imine). <i>Journal of Colloid and Interface Science</i> , 2011, 360, 580-585.	5.0	34
126	Interaction Forces and Aggregation Rates of Colloidal Latex Particles in the Presence of Monovalent Counterions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8184-8193.	1.2	34



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127	Charging and aggregation of latex particles in aqueous solutions of ionic liquids: towards an extended Hofmeister series. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7511-7520.	1.3	34
128	Convective transport of acids and bases in porous media. <i>Water Resources Research</i> , 1994, 30, 2937-2944.	1.7	33
129	Determination of light-scattering form factors of latex particle dimers with simultaneous static and dynamic light scattering in an aggregating suspension. <i>Physical Review E</i> , 1997, 56, 6945-6953.	0.8	33
130	Influence of alkali metal counterions on the charging behavior of poly(acrylic acid). <i>Polymer</i> , 2009, 50, 3950-3954.	1.8	31
131	Structure of an Adsorbed Polyelectrolyte Monolayer on Oppositely Charged Colloidal Particles. <i>Langmuir</i> , 2009, 25, 4864-4867.	1.6	31
132	Large Mechanical Response of Single Dendronized Polymers Induced by Ionic Strength. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4250-4253.	7.2	31
133	Influence of the Degree of Ionization and Molecular Mass of Weak Polyelectrolytes on Charging and Stability Behavior of Oppositely Charged Colloidal Particles. <i>Langmuir</i> , 2011, 27, 9270-9276.	1.6	31
134	Direct measurements of forces between different charged colloidal particles and their prediction by the theory of Derjaguin, Landau, Verwey, and Overbeek (DLVO). <i>Journal of Chemical Physics</i> , 2013, 138, 234705.	1.2	31
135	Long-ranged and soft interactions between charged colloidal particles induced by multivalent coions. <i>Soft Matter</i> , 2015, 11, 1562-1571.	1.2	31
136	Forces between silica particles in the presence of multivalent cations. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 108-115.	5.0	31
137	Solution of the Poisson-Boltzmann equation for surface excesses of ions in the diffuse layer at the oxide-electrolyte interface. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 150, 325-337.	0.3	30
138	Schulze-Hardy rule revisited. <i>Colloid and Polymer Science</i> , 2020, 298, 961-967.	1.0	29
139	The influence of intramolecular vibrational relaxation on the pressure dependence of unimolecular rate constants. <i>Journal of Chemical Physics</i> , 1986, 85, 146-149.	1.2	28
140	Influence of the Secondary Interaction Energy Minimum on the Early Stages of Colloidal Aggregation. <i>Journal of Colloid and Interface Science</i> , 2000, 225, 460-465.	5.0	28
141	Release and transport of colloidal particles in natural porous media: 1. Modeling. <i>Water Resources Research</i> , 2001, 37, 559-570.	1.7	27
142	Long-Ranged Attractive Forces Induced by Adsorbed Dendrimers: Direct Force Measurements and Computer Simulations. <i>Langmuir</i> , 2009, 25, 12435-12438.	1.6	27
143	Effective Charge of Adsorbed Poly(amidoamine) Dendrimers from Direct Force Measurements. <i>Macromolecules</i> , 2009, 42, 1749-1758.	2.2	27
144	Probing Colloidal Particle Aggregation by Light Scattering. <i>Chimia</i> , 2013, 67, 772.	0.3	26

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145	Influence of Solvent Quality on the Force Response of Individual Poly(styrene) Polymer Chains. ACS Macro Letters, 2017, 6, 1052-1055.	2.3	26
146	Unexpectedly Large Decay Lengths of Double-Layer Forces in Solutions of Symmetric, Multivalent Electrolytes. Journal of Physical Chemistry B, 2019, 123, 1733-1740.	1.2	26
147	Probing effects of polymer adsorption in colloidal particle suspensions by light scattering as relevant for the aquatic environment: An overview. Science of the Total Environment, 2015, 535, 131-140.	3.9	25
148	Interplay between Depletion and Double-Layer Forces Acting between Charged Particles in Solutions of Like-Charged Polyelectrolytes. Physical Review Letters, 2016, 117, 088001.	2.9	25
149	Generalized reactive flux method for numerical evaluation of rate constants. Journal of Chemical Physics, 1990, 92, 5307-5310.	1.2	24
150	Affinity Distributions of Polyampholytes with Interacting Acid-Base Groups. Langmuir, 1994, 10, 2863-2865.	1.6	24
151	Multicomponent Transport of Sulfate in a Goethite-Silica Sand System at Variable pH and Ionic Strength. Environmental Science & Technology, 1999, 33, 3443-3450.	4.6	24
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