

# JÃ©rÃ©me F L Duval

## List of Publications by Year in descending order

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141  
papers

4,624  
citations

76326

40  
h-index

123424

61  
g-index

146  
all docs

146  
docs citations

146  
times ranked

3515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled assembly of heterogeneous aggregates of clay, iron hydr(oxydes) and polysaccharide: Effects of preparation conditions. <i>Applied Clay Science</i> , 2022, 216, 106340.	5.2	0
2	On the evaluation of the intrinsic stability of indium-nanoparticulate organic matter complexes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128859.	4.7	4
3	Quantitative insights into electrostatics and structure of polymer brushes from microslit electrokinetic experiments and advanced modelling of interfacial electrohydrodynamics. <i>Current Opinion in Colloid and Interface Science</i> , 2022, 59, 101590.	7.4	6
4	Exploiting Catabolite Repression and Stringent Response to Control Delay and Multimodality of Bioluminescence Signal by Metal Whole-Cell Biosensors: Interplay between Metal Bioavailability and Nutritional Medium Conditions. <i>Biosensors</i> , 2022, 12, 327.	4.7	5
5	Absolute and Relative Positioning of Natural Organic Matter Acid-Base Potentiometric Titration Curves: Implications for the Evaluation of the Density of Charged Reactive Sites. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10494-10503.	10.0	4
6	Electrostatics and electrophoresis of engineered nanoparticles and particulate environmental contaminants: Beyond zeta potential-based formulation. <i>Current Opinion in Colloid and Interface Science</i> , 2022, 60, 101605.	7.4	21
7	Effects of dielectric gradients-mediated ions partitioning on the electrophoresis of composite soft particles: An analytical theory. <i>Electrophoresis</i> , 2021, 42, 153-162.	2.4	17
8	Addressing the electrostatic component of protons binding to aquatic nanoparticles beyond the Non-Ideal Competitive Adsorption (NICA)-Donnan level: Theory and application to analysis of proton titration data for humic matter. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 642-651.	9.4	16
9	On the strong connection between nanoscale adhesion of Yad fimbriae and macroscale attachment of Yad-decorated bacteria to glycosylated, hydrophobic and hydrophilic surfaces. <i>Nanoscale</i> , 2021, 13, 1257-1272.	5.6	4
10	Impacts of Mechanical Stiffness of Bacteriophage-Loaded Hydrogels on Their Antibacterial Activity. <i>ACS Applied Bio Materials</i> , 2021, 4, 2614-2627.	4.6	5
11	Chemodynamic features of nanoparticles: Application to understanding the dynamic life cycle of SARS-CoV-2 in aerosols and aqueous biointerfacial zones. <i>Advances in Colloid and Interface Science</i> , 2021, 290, 102400.	14.7	13
12	Osmotic stress and vesiculation as key mechanisms controlling bacterial sensitivity and resistance to TiO <sub>2</sub> nanoparticles. <i>Communications Biology</i> , 2021, 4, 678.	4.4	15
13	Surface Properties of Parabacteroides distasonis and Impacts of Stress-Induced Molecules on Its Surface Adhesion and Biofilm Formation Capacities. <i>Microorganisms</i> , 2021, 9, 1602.	3.6	5
14	Electrophoresis of composite soft particles with differentiated core and shell permeabilities to ions and fluid flow. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 280-290.	9.4	19
15	Coupling between electrokinetics and electrode kinetics by bipolar faradaic depolarisation processes in microfluidic channels. <i>Advances in Colloid and Interface Science</i> , 2020, 275, 102074.	14.7	4
16	Electrochemical activity of various types of aqueous In(III) species at a mercury electrode. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2807-2818.	2.5	1
17	Fast automated processing of AFM PeakForce curves to evaluate spatially resolved Young modulus and stiffness of turgescent cells. <i>RSC Advances</i> , 2020, 10, 19258-19275.	3.6	19
18	Bimodal stringence-mediated response of metal-detecting luminescent whole cell bioreporters: Experimental evidence and quantitative theory. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127751.	7.8	6

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19	Electrophoresis as a simple method to detect deleterious actions of engineered nanoparticles on living cells. <i>Environmental Chemistry</i> , 2020, 17, 39.	1.5	4
20	Pleiotropic effects of rfa-gene mutations on Escherichia coli envelope properties. <i>Scientific Reports</i> , 2019, 9, 9696.	3.3	54
21	Rigorous Physicochemical Framework for Metal Ion Binding by Aqueous Nanoparticulate Humic Substances: Implications for Speciation Modeling by the NICA-Donnan and WHAM Codes. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8516-8532.	10.0	26
22	On the analysis of ionic surface conduction to unravel charging processes at macroscopic soft and hard solid-liquid interfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 44, 177-187.	7.4	6
23	Decoding the Time-Dependent Response of Bioluminescent Metal-Detecting Whole-Cell Bacterial Sensors. <i>ACS Sensors</i> , 2019, 4, 1373-1383.	7.8	9
24	Ultra-slow diffusion of hexacyanoferrate anions in poly(diallyldimethyl ammonium) Tj ETQq 0 0 rgBT /Overlock 10 Tf 50 547 Td (chlorid 2019, 539, 306-314.	9.4	1
25	Lability of Nanoparticulate Metal Complexes at a Macroscopic Metal Responsive (Bio)interface: Expression and Asymptotic Scaling Laws. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6052-6065.	3.1	19
26	Remarkable reversal of electrostatic interaction forces on zwitterionic soft nanointerfaces in a monovalent aqueous electrolyte: an AFM study at the single nanoparticle level. <i>Nanoscale</i> , 2018, 10, 3181-3190.	5.6	13
27	The Intrinsic Stability of Metal Ion Complexes with Nanoparticulate Fulvic Acids. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11682-11690.	10.0	4
28	On the Infectivity of Bacteriophages in Polyelectrolyte Multilayer Films: Inhibition or Preservation of Their Bacteriolytic Activity?. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33545-33555.	8.0	6
29	What do luminescent bacterial metal-sensors probe? Insights from confrontation between experiments and flux-based theory. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 482-491.	7.8	14
30	Carbonate Disequilibrium in the External Boundary Layer of Freshwater Chrysophytes: Implications for Contaminant Uptake. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9403-9411.	10.0	11
31	Poisson-Boltzmann Electrostatics and Ionic Partition Equilibration of Charged Nanoparticles in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17328-17337.	3.1	7
32	Probing the influence of cell surface polysaccharides on nanodendrimer binding to Gram-negative and Gram-positive bacteria using single-nanoparticle force spectroscopy. <i>Nanoscale</i> , 2018, 10, 12743-12753.	5.6	18
33	Evidence of Ion-Pairing in Cationic Brushes from Evaluation of Brush Charging and Structure by Electrokinetic and Surface Conductivity Analysis. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2915-2922.	3.1	16
34	Chemodynamics of metal ion complexation by charged nanoparticles: a dimensionless rationale for soft, core-shell and hard particle types. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11802-11815.	2.8	16
35	Chemodynamics and bioavailability of metal ion complexes with nanoparticles in aqueous media. <i>Environmental Science: Nano</i> , 2017, 4, 2108-2133.	4.3	25
36	Impact of intracellular metallothionein on metal biouptake and partitioning dynamics at bacterial interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29114-29124.	2.8	9

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37	Applicability of the Reaction Layer Principle to Nanoparticulate Metal Complexes at a Macroscopic Reactive (Bio)Interface: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19147-19161.	3.1	13
38	Recent Progress and Perspectives in the Electrokinetic Characterization of Polyelectrolyte Films. <i>Polymers</i> , 2016, 8, 7.	4.5	13
39	Colloidal Properties of Recombinant Spider Silk Protein Particles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18015-18027.	3.1	21
40	Coupled metal partitioning dynamics and toxicodynamics at biointerfaces: a theory beyond the biotic ligand model framework. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9453-9469.	2.8	9
41	Kinetic and thermodynamic determinants of trace metal partitioning at biointerphases: the role of intracellular speciation dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30415-30435.	2.8	12
42	Structural effects of soft nanoparticulate ligands on trace metal complexation thermodynamics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31711-31724.	2.8	7
43	Remarkable Structure and Elasticity Relaxation Dynamics of Poly(diallyldimethylammonium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj	3.1	12
44	Electrokinetics of soft polymeric interphases with layered distribution of anionic and cationic charges. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 24, 1-12.	7.4	38
45	Deciphering the aggregation mechanism of bacteria ( <i>Shewanella oneidensis</i> MR1) in the presence of polyethyleneimine: Effects of the exopolymeric superstructure and polymer molecular weight. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 285-293.	5.0	7
46	Cadmium accumulation and toxicity in the unicellular alga <i>Pseudokirchneriella subcapitata</i> : Influence of metal-binding exudates and exposure time. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1524-1532.	4.3	27
47	Remarkable Electrokinetic Features of Charge-Stratified Soft Nanoparticles: Mobility Reversal in Monovalent Aqueous Electrolyte. <i>Langmuir</i> , 2015, 31, 5656-5666.	3.5	38
48	Isoelectric point is an inadequate descriptor of MS2, Phi X 174 and PRD1 phages adhesion on abiotic surfaces. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 327-334.	9.4	81
49	Dynamics of Metal Partitioning at the Cell-Solution Interface: Implications for Toxicity Assessment under Growth-Inhibiting Conditions. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6625-6636.	10.0	16
50	Interfaces against pollution 2014: From fundamental to applied environmental physical chemistry. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 307.	9.4	2
51	Structure of Multiresponsive Brush-Decorated Nanoparticles: A Combined Electrokinetic, DLS, and SANS Study. <i>Langmuir</i> , 2015, 31, 4779-4790.	3.5	31
52	Influence of ionic strength and polyelectrolyte concentration on the electrical conductivity of suspensions of soft colloidal polysaccharides. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 212-217.	9.4	17
53	Impacts of pH-mediated EPS structure on probiotic bacterial pili-whey proteins interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 332-338.	5.0	30
54	Evaluation of Metal Biouptake from the Analysis of Bulk Metal Depletion Kinetics at Various Cell Concentrations: Theory and Application. <i>Environmental Science &amp; Technology</i> , 2015, 49, 990-998.	10.0	11

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55	Atomic force microscopy analysis of IgG films at hydrophobic surfaces: A promising method to probe IgG orientations and optimize ELISA tests performance. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 138-145.	2.3	15
56	Dynamics of metal uptake by charged soft biointerphases: impacts of depletion, internalisation, adsorption and excretion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7401-7416.	2.8	17
57	The dynamics and pH-dependence of Ag43 adhesinsâ€™ self-association probed by atomic force spectroscopy. <i>Nanoscale</i> , 2014, 6, 12665-12681.	5.6	14
58	Electrokinetics as an alternative to neutron reflectivity for evaluation of segment density distribution in PEO brushes. <i>Soft Matter</i> , 2014, 10, 7804-7809.	2.7	24
59	Electrodynamics of soft multilayered particles dispersions: dielectric permittivity and dynamic mobility. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15173-15188.	2.8	17
60	Speciation dynamics of metals in dispersion of nanoparticles with discrete distribution of charged binding sites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1999-2010.	2.8	11
61	Dynamic Modulation of Fimbrial Extension and FimH-Mannose Binding Force on Live Bacteria Under pH Changes: A Molecular Atomic Force Microscopy Analysis. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 3361-3372.	1.1	13
62	Impact of the virus purification protocol on aggregation and electrokinetics of MS2 phages and corresponding virus-like particles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5691.	2.8	33
63	Chemodynamics of Soft Charged Nanoparticles in Aquatic Media: Fundamental Concepts. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7643-7654.	2.5	23
64	Understanding the Extraordinary Ionic Reactivity of Aqueous Nanoparticles. <i>Langmuir</i> , 2013, 29, 10297-10302.	3.5	34
65	Dynamics of metal uptake by charged biointerphases: bioavailability and bulk depletion. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7873.	2.8	29
66	Impact of metallic ions on electrohydrodynamics of soft colloidal polysaccharides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 16-21.	4.7	6
67	Interfaces against Pollution: A 'Rendez-Vous' between colloid physical chemistry and (bio) geoscience. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 1.	4.7	0
68	On the use of electrokinetics for unraveling charging and structure of soft planar polymer films. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 83-92.	7.4	53
69	Non-DLVO adhesion of F-specific RNA bacteriophages to abiotic surfaces: Importance of surface roughness, hydrophobic and electrostatic interactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 178-187.	4.7	84
70	Impact of Electrostatics on the Chemodynamics of Highly Charged Metalâ€™Polymer Nanoparticle Complexes. <i>Langmuir</i> , 2013, 29, 13821-13835.	3.5	18
71	Shell Structure of Natural Rubber Particles: Evidence of Chemical Stratification by Electrokinetics and Cryo-TEM. <i>Langmuir</i> , 2013, 29, 14655-14665.	3.5	57
72	Thermo-Regulated Adhesion of the <i>Streptococcus thermophilus</i> Strain. <i>Langmuir</i> , 2013, 29, 4847-4856.	3.5	4

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73	Isotropic/nematic and sol/gel transitions in aqueous suspensions of size selected nontronite N Au1. <i>Clay Minerals</i> , 2013, 48, 663-685.	0.6	15
74	X-Ray Reflectivity at Polarized Liquid-Hg Aqueous-Electrolyte Interface: Challenging Macroscopic Approaches for Ion-Specificity Issues. <i>Physical Review Letters</i> , 2012, 108, 206102.	7.8	21
75	Metal speciation in a complexing soft film layer: a theoretical dielectric relaxation study of coupled chemodynamic and electrodynamic interfacial processes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4491.	2.8	7
76	Chemodynamics: The Graal of Herman P. van Leeuwen. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6421-6421.	2.5	1
77	Rates of Ionic Reactions With Charged Nanoparticles In Aqueous Media. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6443-6451.	2.5	41
78	Polyethyleneimine-mediated flocculation of <i>Shewanella oneidensis</i> MR-1: Impacts of cell surface appendage and polymer concentration. <i>Water Research</i> , 2012, 46, 1838-1846.	11.3	17
79	Antibacterial activity of class IIa bacteriocin Cbn BM1 depends on the physiological state of the target bacteria. <i>Research in Microbiology</i> , 2012, 163, 323-331.	2.1	18
80	Chemodynamics of Metal Complexation by Natural Soft Colloids: Cu(II) Binding by Humic Acid. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6489-6496.	2.5	43
81	Surface properties of bacteria sensitive and resistant to the class IIa carnobacteriocin Cbn BM1. <i>Journal of Applied Microbiology</i> , 2012, 112, 372-382.	3.1	6
82	Electrohydrodynamics of Soft Polyelectrolyte Multilayers: Point of Zero-Streaming Current. <i>Langmuir</i> , 2011, 27, 10739-10752.	3.5	56
83	Electrostatic interactions between diffuse soft multi-layered (bio)particles: beyond Debye-HÃ¼ckel approximation and Deryagin formulation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1037-1053.	2.8	61
84	Bacterial Surface Appendages Strongly Impact Nanomechanical and Electrokinetic Properties of <i>Escherichia coli</i> Cells Subjected to Osmotic Stress. <i>PLoS ONE</i> , 2011, 6, e20066.	2.5	69
85	Impact of the virulence-associated MAb3/1 epitope on the physicochemical surface properties of <i>Legionella pneumophila</i> sg1: An issue to explain infection potential?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 283-290.	5.0	14
86	Interrelations between charging, structure and electrokinetics of nanometric polyelectrolyte films. <i>Journal of Colloid and Interface Science</i> , 2011, 362, 439-449.	9.4	48
87	Impact of Internal RNA on Aggregation and Electrokinetics of Viruses: Comparison between MS2 Phage and Corresponding Virus-Like Particles. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4939-4948.	3.1	77
88	Automated Force Volume Image Processing for Biological Samples. <i>PLoS ONE</i> , 2011, 6, e18887.	2.5	86
89	Analysis of Polymer Layers on Red Blood Cell Surfaces with Soft Particle Models. <i>Kobunshi Ronbunshu</i> , 2010, 67, 654-665.	0.2	0
90	On the applicability of the Brinkman equation in soft surface electrokinetics. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 1-4.	9.4	48

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91	Progress in electrohydrodynamics of soft microbial particle interphases. <i>Current Opinion in Colloid and Interface Science</i> , 2010, 15, 184-195.	7.4	178
92	Morphology and Breaking of Latex Particle Deposits at a Cylindrical Collector in a Microfluidic Chamber. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9413-9418.	10.0	13
93	Electrokinetics of a Poly( <i>N</i> -isopropylacrylamid-co-carboxyacrylamid) Soft Thin Film: Evidence of Diffuse Segment Distribution in the Swollen State. <i>Langmuir</i> , 2010, 26, 18169-18181.	3.5	44
94	Orientational Order of Colloidal Disk-Shaped Particles under Shear-Flow Conditions: a Rheological Small-Angle X-ray Scattering Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16347-16355.	2.6	34
95	Efficiency of MS2 phage and Q $\beta$ phage removal by membrane filtration in water treatment: Applicability of real-time RT-PCR method. <i>Journal of Membrane Science</i> , 2009, 326, 111-116.	8.2	82
96	The role of the heat shock protein Hsp12p in the dynamic response of <i>Saccharomyces cerevisiae</i> to the addition of Congo red. <i>FEMS Yeast Research</i> , 2009, 9, 391-399.	2.3	11
97	Metal Speciation Dynamics in Dispersions of Soft Colloidal Ligand Particles under Steady-State Laminar Flow Condition. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12791-12804.	2.5	14
98	Electrokinetics of Diffuse Soft Interfaces. IV. Analysis of Streaming Current Measurements at Thermoresponsive Thin Films. <i>Langmuir</i> , 2009, 25, 10691-10703.	3.5	63
99	Sol-Gel and Isotropic/Nematic Transitions in Aqueous Suspensions of Natural Nontronite Clay. Influence of Particle Anisotropy. 2. Gel Structure and Mechanical Properties. <i>Langmuir</i> , 2009, 25, 127-139.	3.5	83
100	Metal Speciation Dynamics in Soft Colloidal Ligand Suspensions. Electrostatic and Site Distribution Aspects. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2275-2293.	2.5	21
101	Impacts of Papain and Neuraminidase Enzyme Treatment on Electrohydrodynamics and IgG-Mediated Agglutination of Type A Red Blood Cells. <i>Langmuir</i> , 2009, 25, 10873-10885.	3.5	19
102	Increased adhesion of <i>Enterococcus faecalis</i> strains with bimodal electrophoretic mobility distributions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 302-306.	5.0	9
103	Impact of Chemical and Structural Anisotropy on the Electrophoretic Mobility of Spherical Soft Multilayer Particles: The Case of Bacteriophage MS2. <i>Biophysical Journal</i> , 2008, 94, 3293-3312.	0.5	126
104	Aggregation and surface properties of F-specific RNA phages: Implication for membrane filtration processes. <i>Water Research</i> , 2008, 42, 2769-2777.	11.3	145
105	Adhesion of <i>Campylobacter jejuni</i> and <i>Mycobacterium avium</i> onto polyethylene terephthalate (PET) used for bottled waters. <i>Water Research</i> , 2008, 42, 4751-4760.	11.3	16
106	Coupled Electrostatic, Hydrodynamic, and Mechanical Properties of Bacterial Interfaces in Aqueous Media. <i>Langmuir</i> , 2008, 24, 10988-10995.	3.5	84
107	Metal Speciation Dynamics in Monodisperse Soft Colloidal Ligand Suspensions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7137-7151.	2.5	21
108	The Major Surface-Associated Saccharides of <i>Klebsiella pneumoniae</i> Contribute to Host Cell Association. <i>PLoS ONE</i> , 2008, 3, e3817.	2.5	72



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109	Mixers. , 2008, , 323-373.		2
110	On the use of electrokinetic phenomena of the second kind for probing electrode kinetic properties of modified electron-conducting surfaces. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1713-1729.	2.8	10
111	Relationship between Swelling and the Electrohydrodynamic Properties of Functionalized Carboxymethyl-dextran Macromolecules. <i>Langmuir</i> , 2007, 23, 8460-8473.	3.5	23
112	Surface Ionization State and Nanoscale Chemical Composition of UV-Irradiated Poly(dimethylsiloxane) Probed by Chemical Force Microscopy, Force Titration, and Electrokinetic Measurements. <i>Langmuir</i> , 2007, 23, 5430-5438.	3.5	42
113	The stress response protein Hsp12p increases the flexibility of the yeast <i>Saccharomyces cerevisiae</i> cell wall. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 131-137.	2.3	45
114	Faradaic double layer depolarization in electrokinetics: Onsager relations and substrate limitations. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 350-359.	9.4	12
115	Electrophoresis of Diffuse Soft Particles. <i>Langmuir</i> , 2006, 22, 3533-3546.	3.5	237
116	Quasi-reversible Faradaic Depolarization Processes in the Electrokinetics of the Metal/Solution Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6081-6094.	2.6	35
117	Probing Surface Structures of <i>Shewanella</i> spp. by Microelectrophoresis. <i>Biophysical Journal</i> , 2006, 90, 2612-2621.	0.5	48
118	Electrohydrodynamic Properties of Succinoglycan as Probed by Fluorescence Correlation Spectroscopy, Potentiometric Titration and Capillary Electrophoresis. <i>Biomacromolecules</i> , 2006, 7, 2818-2826.	5.4	33
119	Multiscale dynamics of the cell envelope of <i>Shewanella putrefaciens</i> as a response to pH change. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 52, 108-116.	5.0	41
120	Coupling between electroosmotically driven flow and bipolar faradaic depolarization processes in electron-conducting microchannels. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 341-352.	9.4	14
121	Modulation of electroosmotic flows in electron-conducting microchannels by coupled quasi-reversible faradaic and adsorption-mediated depolarization. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 413-428.	9.4	9
122	Random Computer Generation of 3D Molecular Structures: Theoretical and Statistical Analysis. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 147-162.	1.4	4
123	Hetero-interaction between Gouyâ€ˆStern double layers: Charge and potential regulation. <i>Advances in Colloid and Interface Science</i> , 2005, 114-115, 27-45.	14.7	57
124	Analysis of the Interfacial Properties of Fibrillated and Nonfibrillated Oral Streptococcal Strains from Electrophoretic Mobility and Titration Measurements:Ã Evidence for the Shortcomings of the â€ˆClassical Soft-Particle Approach'. <i>Langmuir</i> , 2005, 21, 11268-11282.	3.5	74
125	Electrokinetics of Diffuse Soft Interfaces. 2. Analysis Based on the Nonlinear PoissonâˆBoltzmann Equation. <i>Langmuir</i> , 2005, 21, 3247-3258.	3.5	83
126	Electrokinetics of Diffuse Soft Interfaces. III. Interpretation of Data on the Polyacrylamide/Water Interface. <i>Langmuir</i> , 2005, 21, 6220-6227.	3.5	55



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127	Humic Substances Are Soft and Permeable: Evidence from Their Electrophoretic Mobilities. Environmental Science & Technology, 2005, 39, 6435-6445.	10.0	175
128	Electrokinetics of the amphifunctional metal/electrolyte solution interface in the presence of a redox couple. Journal of Colloid and Interface Science, 2004, 269, 211-223.	9.4	28
129	Electrostatic interactions between immunoglobulin (IgG) molecules and a charged sorbent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 250, 29-42.	4.7	59
130	Electrokinetics of Diffuse Soft Interfaces. 1. Limit of Low Donnan Potentials. Langmuir, 2004, 20, 10324-10336.	3.5	89
131	Electrostatic Interactions between Double Layers: Influence of Surface Roughness, Regulation, and Chemical Heterogeneities. Langmuir, 2004, 20, 5052-5065.	3.5	48
132	Faradaic depolarization in the electrokinetics of the metal-electrolyte solution interface. Journal of Colloid and Interface Science, 2003, 260, 95-106.	9.4	67
133	Coupling of Lateral Electric Field and Transversal Faradaic Processes at the Conductor/Electrolyte Solution Interface. Journal of Physical Chemistry B, 2003, 107, 4143-4155.	2.6	47
134	Rigorous Analysis of Reversible Faradaic Depolarization Processes in the Electrokinetics of the Metal/Electrolyte Solution Interface. Journal of Physical Chemistry B, 2003, 107, 6782-6800.	2.6	39
135	Double Layer of a Gold Electrode Probed by AFM Force Measurements. Langmuir, 2003, 19, 1133-1139.	3.5	79
136	Double layers at amphifunctionally electrified interfaces in the presence of electrolytes containing specifically adsorbing ions. Journal of Electroanalytical Chemistry, 2002, 532, 337-352.	3.8	29
137	Amphifunctionally Electrified Interfaces: Coupling of Electronic and Ionic Surface-Charging Processes. Langmuir, 2001, 17, 7573-7581.	3.5	70
138	Bipolar electrode behaviour of the aluminium surface in a lateral electric field. Journal of Electroanalytical Chemistry, 2001, 505, 1-11.	3.8	82
139	Electrophoretic Deposition: A Quantitative Model for Particle Deposition and Binder Formation from Alcohol-Based Suspensions. Journal of Colloid and Interface Science, 2000, 222, 117-124.	9.4	29
140	Nature of the magnetic ground state in the A1C60 series. European Physical Journal Special Topics, 2000, 10, Pr3-205-Pr3-210.	0.2	3
141	Electrophoresis of Soft Colloids: Basic Principles and Applications. , 0, , 315-344.		5