Jyh-Ping Hsu

List of Publications by Year
in descending order

295 papers	5,916 citations	81900 39 h-index	133252 59 g-index
300 all docs	300 docs citations	300 times ranked	3041 citing authors

#	Article	IF	Citations
1	An ultra-sensitive electrochemical sensor based on 2D g-C3N4/CuO nanocomposites for dopamine detection. Carbon, 2018, 130, 652-663.	10.3	250
2	Behavior of soybean oil-in-water emulsion stabilized by nonionic surfactant. Journal of Colloid and Interface Science, 2003, 259, 374-381.	9.4	160
3	Influence of metal oxide nanoparticles concentration on their zeta potential. Journal of Colloid and Interface Science, 2013, 407, 22-28.	9.4	115
4	Ion Concentration Polarization in Polyelectrolyte-Modified Nanopores. Journal of Physical Chemistry C, 2012, 116, 8672-8677.	3.1	114
5	Field Effect Control of Surface Charge Property and Electroosmotic Flow in Nanofluidics. Journal of Physical Chemistry C, 2012, 116, 4209-4216.	3.1	100
6	Salinity gradient power: influences of temperature and nanopore size. Nanoscale, 2016, 8, 2350-2357.	5.6	99
7	Electrokinetic Flow through an Elliptical Microchannel: Effects of Aspect Ratio and Electrical Boundary Conditions. Journal of Colloid and Interface Science, 2002, 248, 176-184.	9.4	87
8	Improving stability of MXenes. Nano Research, 2022, 15, 6551-6567.	10.4	87
9	Unraveling the Anomalous Surface-Charge-Dependent Osmotic Power Using a Single Funnel-Shaped Nanochannel. ACS Nano, 2019, 13, 13374-13381.	14.6	86
10	Electrophoretic Mobility of a Sphere in a Spherical Cavity. Journal of Colloid and Interface Science, 1998, 205, 65-76.	9.4	85
11	Regulating DNA translocation through functionalized soft nanopores. Nanoscale, 2012, 4, 2685.	5.6	78
12	Evaluation of the electric force in electrophoresis. Journal of Colloid and Interface Science, 2007, 305, 324-329.	9.4	75
13	Power generation by a pH-regulated conical nanopore through reverse electrodialysis. Journal of Power Sources, 2017, 366, 169-177.	7.8	73
14	Ionic Current Rectification in a pH-Tunable Polyelectrolyte Brushes Functionalized Conical Nanopore: Effect of Salt Gradient. Analytical Chemistry, 2016, 88, 1176-1187.	6.5	70
15	Electrokinetic ion and fluid transport in nanopores functionalized by polyelectrolyte brushes. Nanoscale, 2012, 4, 5169.	5.6	69
16	Effects of double-layer polarization and counterion condensation on the electrophoresis of polyelectrolytes. Soft Matter, 2011, 7, 396-411.	2.7	66
17	Ionic Current Rectification in a Conical Nanopore: Influences of Electroosmotic Flow and Type of Salt. Journal of Physical Chemistry C, 2017, 121, 4576-4582.	3.1	66
18	Preparation of submicron-sized Mg(OH)2 particles through precipitation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 220-231.	4.7	63

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19	Influences of Cone Angle and Surface Charge Density on the Ion Current Rectification Behavior of a Conical Nanopore. Journal of Physical Chemistry C, 2016, 120, 25620-25627.	3.1	63
20	Ion Current Rectification Behavior of Bioinspired Nanopores Having a pH-Tunable Zwitterionic Surface. Analytical Chemistry, 2017, 89, 3952-3958.	6.5	62
21	An ultrathin ionomer interphase for high efficiency lithium anode in carbonate based electrolyte. Nature Communications, 2019, 10, 5824.	12.8	62
22	Regulating Current Rectification and Nanoparticle Transport Through a Salt Gradient in Bipolar Nanopores. Small, 2015, 11, 4594-4602.	10.0	60
23	Water stable metal-organic framework as adsorbent from aqueous solution: A mini-review. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 176-183.	5.3	60
24	Electrophoretic Mobility of a Concentrated Suspension of Spherical Particles. Journal of Colloid and Interface Science, 1999, 209, 240-246.	9.4	59
25	Power generation from a pH-regulated nanochannel through reverse electrodialysis: Effects of nanochannel shape and non-uniform H+ distribution. Electrochimica Acta, 2019, 294, 84-92.	5.2	58
26	Highly Charged Particles Cause a Larger Current Blockage in Micropores Compared to Neutral Particles. ACS Nano, 2016, 10, 8413-8422.	14.6	57
27	Salt gradient driven ion transport in solid-state nanopores: the crucial role of reservoir geometry and size. Physical Chemistry Chemical Physics, 2016, 18, 30160-30165.	2.8	55
28	Influence of electroosmotic flow on the ionic current rectification in a pH-regulated, conical nanopore. Nanoscale, 2015, 7, 14023-14031.	5.6	54
29	Rectification of ionic current in nanopores functionalized with bipolar polyelectrolyte brushes. Sensors and Actuators B: Chemical, 2018, 258, 1223-1229.	7.8	53
30	Controlling pH-Regulated Bionanoparticles Translocation through Nanopores with Polyelectrolyte Brushes. Analytical Chemistry, 2012, 84, 9615-9622.	6.5	51
31	Electrophoretic Mobility of a Spherical Particle in a Spherical Cavity. Journal of Colloid and Interface Science, 1997, 196, 316-320.	9.4	46
32	Importance of polyelectrolyte modification for rectifying the ionic current in conically shaped nanochannels. Physical Chemistry Chemical Physics, 2017, 19, 5351-5360.	2.8	45
33	DNA Electrokinetic Translocation through a Nanopore: Local Permittivity Environment Effect. Journal of Physical Chemistry C, 2012, 116, 4793-4801.	3.1	44
34	Electrophoresis of a Sphere along the Axis of a Cylindrical Pore:Â Effects of Double-Layer Polarization and Electroosmotic Flow. Langmuir, 2007, 23, 6198-6204.	3.5	43
35	Electrophoresis of a Finite Cylinder along the Axis of a Cylindrical Pore. Journal of Physical Chemistry B, 2002, 106, 10605-10609.	2.6	42
36	Modulation of Charge Density and Charge Polarity of Nanopore Wall by Salt Gradient and Voltage. ACS Nano, 2019, 13, 9868-9879.	14.6	42

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37	Tunable Current Rectification and Selectivity Demonstrated in Nanofluidic Diodes through Kinetic Functionalization. Journal of Physical Chemistry Letters, 2020, 11, 60-66.	4.6	42
38	Electrophoresis of a Spherical Dispersion of Polyelectrolytes in a Salt-Free Solution. Journal of Physical Chemistry B, 2006, 110, 1490-1498.	2.6	41
39	Salinity gradient power: Optimization of nanopore size. Electrochimica Acta, 2016, 219, 790-797.	5.2	41
40	Boundary Effect on Diffusiophoresis: Spherical Particle in a Spherical Cavity. Langmuir, 2009, 25, 1772-1784.	3.5	39
41	Electrophoresis of a spherical particle along the axis of a cylindrical pore: effect of electroosmotic flow. Journal of Colloid and Interface Science, 2004, 276, 248-254.	9.4	38
42	Electrokinetics of pH-regulated zwitterionic polyelectrolyte nanoparticles. Nanoscale, 2012, 4, 7575.	5.6	38
43	Importance of Temperature Effect on the Electrophoretic Behavior of Charge-Regulated Particles. Langmuir, 2012, 28, 1013-1019.	3.5	38
44	Electrophoretic Motion of a Charge-Regulated Sphere Normal to a Plane. Journal of Colloid and Interface Science, 2001, 242, 121-126.	9.4	36
45	Effect of Electroosmotic Flow on the Electrophoresis of a Membrane-Coated Sphere along the Axis of a Cylindrical Pore. Journal of Physical Chemistry B, 2009, 113, 7701-7708.	2.6	36
46	Importance of Ionic Polarization Effect on the Electrophoretic Behavior of Polyelectrolyte Nanoparticles in Aqueous Electrolyte Solutions. Journal of Physical Chemistry C, 2012, 116, 367-373.	3.1	36
47	Electrophoresis of concentrated spherical particles with a charge-regulated surface. Journal of Chemical Physics, 2000, 112, 6404-6410.	3.0	33
48	An experimental study on the rheological properties of aqueous ceria dispersions. Journal of Colloid and Interface Science, 2004, 274, 277-284.	9.4	33
49	Diffusiophoresis of a Soft Spherical Particle in a Spherical Cavity. Journal of Physical Chemistry B, 2009, 113, 8646-8656.	2.6	33
50	Effect of Multiple Ionic Species on the Electrophoretic Behavior of a Charge-Regulated Particle. Langmuir, 2010, 26, 16857-16864.	3.5	33
51	Counterion condensation in pH-regulated polyelectrolytes. Electrochemistry Communications, 2012, 19, 97-100.	4.7	33
52	Salt-Dependent Ion Current Rectification in Conical Nanopores: Impact of Salt Concentration and Cone Angle. Journal of Physical Chemistry C, 2017, 121, 28139-28147.	3.1	33
53	Dynamic Interactions of Two Electrical Double Layers. Journal of Colloid and Interface Science, 1997, 195, 388-394.	9.4	32
54	Boundary effect on electrophoresis: finite cylinder in a cylindrical pore. Journal of Colloid and Interface Science, 2005, 283, 592-600.	9.4	31

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55	Diffusiophoresis of Concentrated Suspensions of Spherical Particles with Distinct Ionic Diffusion Velocities. Journal of Physical Chemistry B, 2007, 111, 2533-2539.	2.6	31
56	Influence of salt valence on the rectification behavior of nanochannels. Journal of Colloid and Interface Science, 2018, 531, 483-492.	9.4	31
57	Electrophoresis of a Sphere Normal to a Plane at Arbitrary Electrical Potential and Double Layer Thickness. Journal of Colloid and Interface Science, 2002, 248, 383-388.	9.4	30
58	Electrophoresis of a Sphere in a Spherical Cavity at Arbitrary Electrical Potentials. Langmuir, 2001, 17, 6289-6297.	3.5	29
59	Electrophoresis of a Finite Cylinder Positioned Eccentrically along the Axis of a Long Cylindrical Pore. Journal of Physical Chemistry B, 2006, 110, 17607-17615.	2.6	29
60	Dynamic Electrophoretic Mobility of Concentrated Spherical Dispersions. Journal of Physical Chemistry B, 2001, 105, 7239-7245.	2.6	28
61	Dual pH Gradient and Voltage Modulation of Ion Transport and Current Rectification in Biomimetic Nanopores Functionalized with a pH-Tunable Polyelectrolyte. Journal of Physical Chemistry C, 2019, 123, 12437-12443.	3.1	28
62	Dynamic Electrophoretic Mobility in Electroacoustic Phenomenon:Â Concentrated Dispersions at Arbitrary Potentials. Journal of Physical Chemistry B, 2002, 106, 4789-4798.	2.6	27
63	Electrophoresis of a concentrated dispersion of spherical particles covered by an ion-penetrable membrane layer. Journal of Colloid and Interface Science, 2004, 280, 518-526.	9.4	27
64	Sedimentation potential of a concentrated spherical colloidal suspension. Journal of Chemical Physics, 1999, 110, 11643-11651.	3.0	26
65	Built-in electric field-assisted step-scheme heterojunction of carbon nitride-copper oxide for highly selective electrochemical detection of p-nonylphenol. Electrochimica Acta, 2020, 354, 136658.	5.2	26
66	Electrophoresis of a spherical particle along the axis of a cylindrical pore filled with a Carreau fluid. Colloid and Polymer Science, 2006, 284, 886-892.	2.1	25
67	Electrophoresis of a Charge-Regulated Soft Sphere in a Charged Cylindrical Pore. Journal of Physical Chemistry B, 2010, 114, 1621-1631.	2.6	25
68	Influence of boundary on the effect of double-layer polarization and the electrophoretic behavior of soft biocolloids. Colloids and Surfaces B: Biointerfaces, 2011, 88, 559-567.	5.0	25
69	Controllable interface engineering of g-C3N4/CuS nanocomposite photocatalysts. Journal of Alloys and Compounds, 2022, 911, 165020.	5.5	25
70	The induction period of the CaCl2â€“Na2CO3 system: Theory and experiment. Journal of Chemical Physics, 1999, 111, 2657-2664.	3.0	24
71	Electrophoretic Mobility of a Particle Coated with a Charged Membrane: Effects of Fixed Charge and Dielectric Constant Distributions. Journal of Colloid and Interface Science, 1995, 172, 230-241.	9.4	23
72	The role of cell density in the survival of cultured cerebellar granule neurons. Journal of Biomedical Materials Research Part B, 2000, 52, 748-753.	3.1	23

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73	Electrophoresis of a Sphere at an Arbitrary Position in a Spherical Cavity. Langmuir, 2002, 18, 8897-8901.	3.5	23
74	Electrophoresis in a non-Newtonian fluid: sphere in a spherical cavity. Journal of Colloid and Interface Science, 2003, 258, 283-288.	9.4	23
75	The Electrostatic Interaction Force between a Charge-Regulated Particle and a Rigid Surface. Journal of Colloid and Interface Science, 1996, 183, 194-198.	9.4	22
76	Electrophoresis of a sphere at an arbitrary position in a spherical cavity filled with Carreau fluid. Journal of Colloid and Interface Science, 2004, 280, 256-263.	9.4	22
77	Model for Sludge Cake Drying Accounting for Developing Cracks. Drying Technology, 2010, 28, 922-926.	3.1	22
78	Electrophoresis of a Membrane-Coated Cylindrical Particle Positioned Eccentrically along the Axis of a Narrow Cylindrical Pore. Journal of Physical Chemistry C, 2010, 114, 16576-16587.	3.1	22
79	Pressure-driven energy conversion of conical nanochannels: Anomalous dependence of power generated and efficiency on pH. Journal of Colloid and Interface Science, 2020, 564, 491-498.	9.4	22
80	Influence of the shape of a polyelectrolyte on its electrophoretic behavior. Soft Matter, 2012, 8, 9469.	2.7	21
81	Theoretical study of temperature influence on the electrophoresis of a pH-regulated polyelectrolyte. Analytica Chimica Acta, 2014, 847, 80-89.	5.4	21
82	Approximate Analytical Expressions for the Properties of a Double Layer with Asymmetric Electrolytes: Ion-Penetrable Charged Membranes. Journal of Colloid and Interface Science, 1994, 166, 208-214.	9.4	20
83	Sedimentation of a cylindrical particle in a Carreau fluid. Journal of Colloid and Interface Science, 2005, 286, 392-399.	9.4	20
84	Diffusiophoresis of a Charge-Regulated Sphere along the Axis of an Uncharged Cylindrical Pore. Langmuir, 2010, 26, 8648-8658.	3.5	20
85	Voltage-controlled ion transport and selectivity in a conical nanopore functionalized with pH-tunable polyelectrolyte brushes. Journal of Colloid and Interface Science, 2019, 537, 496-504.	9.4	20
86	Double-Layer Properties of an Ion-Penetrable Charged Membrane:Â Effect of Sizes of Charged Species. Journal of Physical Chemistry B, 1999, 103, 9743-9748.	2.6	19
87	Electrophoresis of a rigid sphere in a Carreau fluid normal to a planar surface. Journal of Colloid and Interface Science, 2005, 285, 857-864.	9.4	19
88	Electrophoresis of a Charge-Regulated Sphere Normal to a Large Disk. Langmuir, 2005, 21, 7588-7597.	3.5	19
89	Effect of a Charged Boundary on Electrophoresis in a Carreau Fluid:â€‰ A Sphere at an Arbitrary Position in a Spherical Cavity. Langmuir, 2007, 23, 8637-8646.	3.5	19
90	Electrophoresis of a finite rod along the axis of a long cylindrical microchannel filled with Carreau fluids. Microfluidics and Nanofluidics, 2009, 7, 383-392.	2.2	19

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91	Diffusiophoresis of a Charge-Regulated Spherical Particle Normal to Two Parallel Disks. Journal of Physical Chemistry B, 2010, 114, 2766-2778.	2.6	19
92	Capillary Osmosis in a Charged Nanopore Connecting Two Large Reservoirs. Langmuir, 2013, 29, 9598-9603.	3.5	19
93	Kinetic modeling of melt transesterification of diphenyl carbonate and bisphenol-A. Polymer, 2003, 44, 5851-5857.	3.8	18
94	Effect of charged boundary on electrophoresis: Sphere in spherical cavity at arbitrary potential and double-layer thickness. Journal of Colloid and Interface Science, 2007, 314, 256-263.	9.4	18
95	Diffusiophoresis of a sphere along the axis of a cylindrical pore. Journal of Colloid and Interface Science, 2010, 342, 598-606.	9.4	18
96	Influence of temperature and electroosmotic flow on the rectification behavior of conical nanochannels. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 142-149.	5.3	18
97	Regulating the ionic current rectification behavior of branched nanochannels by filling polyelectrolytes. Journal of Colloid and Interface Science, 2019, 557, 683-690.	9.4	18
98	Modified GÃ¶uyâ€“Chapman theory for an ion-penetrable charged membrane. Journal of Chemical Physics, 1999, 111, 4807-4816.	3.0	17
99	Stability of Colloidal Dispersions:Â Charge Regulation/Adsorption Model. Langmuir, 1999, 15, 5219-5226.	3.5	17
100	Electrophoretic mobility of concentrated spheres with a charge-regulated surface. Electrophoresis, 2000, 21, 475-480.	2.4	17
101	Electrophoresis in a Carreau Fluid at Arbitrary Zeta Potentials. Langmuir, 2004, 20, 7952-7959.	3.5	17
102	Drag force on a rigid spheroidal particle in a cylinder filled with Carreau fluid. Journal of Colloid and Interface Science, 2005, 284, 729-741.	9.4	17
103	Melt Transesterification of Polycarbonate Catalyzed by DMAP. Industrial & Engineering Chemistry Research, 2006, 45, 2672-2676.	3.7	17
104	Diffusiophoresis of a Soft Sphere Normal to Two Parallel Disks. Langmuir, 2010, 26, 16037-16047.	3.5	17
105	Gel electrophoresis: Importance of concentration-dependent permittivity and double-layer polarization. Chemical Engineering Science, 2012, 84, 574-579.	3.8	17
106	Diffusiophoresis of a polyelectrolyte in a salt concentration gradient. Electrophoresis, 2012, 33, 1068-1078.	2.4	17
107	Diffusiophoresis of a soft, pH-regulated particle in a solution containing multiple ionic species. Journal of Colloid and Interface Science, 2015, 438, 196-203.	9.4	17
108	Effective adsorption of phosphoric acid by UiO-66 and UiO-66-NH2 from extremely acidic mixed waste acids: Proof of concept. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 483-486.	5.3	17

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109	Pressure-driven ion separation through a pH-regulated cylindrical nanopore. Journal of Membrane Science, 2020, 604, 118073.	8.2	17
110	Electrical Interactions between Two Ion-Penetrable Charged Membranes:Â Effect of Sizes of Charged Species. Langmuir, 2000, 16, 6233-6239.	3.5	16
111	On the Factors Influencing the Preparation of Nanosized Titania Sols. Langmuir, 2003, 19, 4448-4454.	3.5	16
112	Electrophoresis of a Concentrated Dispersion of Spherical Particles in a Non-Newtonian Fluid. Langmuir, 2004, 20, 2149-2156.	3.5	16
113	Drag force on a porous, non-homogeneous spheroidal floc in a uniform flow field. Journal of Colloid and Interface Science, 2003, 259, 301-308.	9.4	15
114	Electrophoresis of a toroid along the axis of a cylindrical pore. Electrophoresis, 2006, 27, 3155-3165.	2.4	15
115	Electrophoresis of a Charge-Regulated Sphere in a Narrow Cylindrical Pore Filled with Multiple Ionic Species. Journal of Physical Chemistry B, 2011, 115, 3972-3980.	2.6	15
116	Ultrashort nanopores of large radius can generate anomalously high salinity gradient power. Electrochimica Acta, 2020, 353, 136613.	5.2	15
117	Ion current rectification behavior of a nanochannel having nonuniform crossâ€section. Electrophoresis, 2020, 41, 802-810.	2.4	15
118	Electrokinetic behavior of bullet-shaped nanopores modified by functional groups: Influence of finite thickness of modified layer. Journal of Colloid and Interface Science, 2021, 582, 741-751.	9.4	15
119	Electrostatic interaction between a charge-regulated particle and a solid surface in electrolyte solution: effect of cationic electrolytes. Colloid and Polymer Science, 1994, 272, 946-954.	2.1	14
120	Adsorption of a Charge-Regulated Particle to a Charged Surface. Langmuir, 1997, 13, 4372-4376.	3.5	14
121	Effect of Ionic Sizes on the Electrophoretic Mobility of a Particle with a Charge-Regulated Membrane in a General Electrolyte Solution. Journal of Physical Chemistry B, 2002, 106, 2117-2122.	2.6	14
122	Drag force on a floc in a flow field: two-layer model. Chemical Engineering Science, 2002, 57, 2627-2633.	3.8	14
123	Electrophoresis of a Membrane-Coated Sphere in a Spherical Cavity. Langmuir, 2004, 20, 9415-9421.	3.5	14
124	Electrophoresis of Two Identical Rigid Spheres in a Charged Cylindrical Pore. Journal of Physical Chemistry B, 2007, 111, 2579-2586.	2.6	14
125	Unified Analysis of Dewatering and Drying of Sludge Cake. Drying Technology, 2010, 28, 877-880.	3.1	14
126	Gel electrophoresis of a chargeâ€regulated, biâ€functional particle. Electrophoresis, 2013, 34, 785-791.	2.4	14

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127	Dissolution of solid particles in liquids. Journal of Colloid and Interface Science, 1991, 141, 60-66.	9.4	13
128	Approximate analytical expressions for the properties of an electrical double layer with asymmetric electrolytes. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1229.	1.7	13
129	Gradient-Index Polymer Optical Fiber Preparation through a Co-Extrusion Process. Polymer Journal, 1999, 31, 233-237.	2.7	13
130	Electrophoretic behavior of cerebellar granule neurons. Electrophoresis, 2002, 23, 2001.	2.4	13
131	Electrophoresis of biological cells: Charge-regulation and multivalent counterions association model. Electrophoresis, 2003, 24, 1338-1346.	2.4	13
132	Electrophoresis of a Spheroid in a Spherical Cavity. Langmuir, 2003, 19, 7469-7473.	3.5	13
133	Temperature dependence of the viscosity of nonpolymeric liquids. Journal of Chemical Physics, 2003, 118, 172-178.	3.0	13
134	Electrophoresis of a Rigid Sphere in a Carreau Fluid Normal to a Large Charged Disk. Journal of Physical Chemistry B, 2007, 111, 12351-12361.	2.6	13
135	Electrophoresis of a soft sphere in a necked cylindrical nanopore. Physical Chemistry Chemical Physics, 2013, 15, 11758.	2.8	13
136	Ionic current in a pH-regulated nanochannel filled with multiple ionic species. Microfluidics and Nanofluidics, 2014, 17, 933-941.	2.2	13
137	Electrophoretic Mobility of Biological Cells in Asymmetric Electrolyte Solutions. Journal of Theoretical Biology, 1996, 182, 137-145.	1.7	12
138	Boundary effect on the drag force on a nonhomogeneous floc. Journal of Colloid and Interface Science, 2003, 264, 517-525.	9.4	12
139	Electrophoresis of a spheroid along the axis of a cylindrical pore. Chemical Engineering Science, 2003, 58, 5339-5347.	3.8	12
140	Estimation of the Ionic Distribution in a Reverse Micelle:Â Effect of Ionic Size. Journal of Physical Chemistry B, 2003, 107, 14429-14433.	2.6	12
141	Electrophoresis of a charge-regulated particle at an arbitrary position in a spherical cavity. Colloid and Polymer Science, 2004, 283, 10-14.	2.1	12
142	Effect of a charged boundary on electrophoresis: A sphere at an arbitrary position in a spherical cavity. Journal of Colloid and Interface Science, 2007, 310, 281-291.	9.4	12
143	Electrokinetic flow in a pH-regulated, cylindrical nanochannel containing multiple ionic species. Microfluidics and Nanofluidics, 2013, 15, 847-857.	2.2	12
144	Electrophoresis of Deformable Polyelectrolytes in a Nanofluidic Channel. Langmuir, 2013, 29, 2446-2454.	3.5	12

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145	Electrodiffusioosmosis in a Solid-State Nanopore Connecting Two Large Reservoirs: Optimum Pore Size. Journal of Physical Chemistry C, 2014, 118, 19498-19504.	3.1	12
146	Electrokinetic ion transport in an asymmetric double-gated nanochannel with a pH-tunable zwitterionic surface. Physical Chemistry Chemical Physics, 2019, 21, 7773-7780.	2.8	12
147	Detection of the trace level of heavy metal ions by pH-regulated conical nanochannels. Journal of the Taiwan Institute of Chemical Engineers, 2020, 109, 145-152.	5.3	12
148	A dynamic anode boosting sulfamerazine mineralization <i>via</i> electrochemical oxidation. Journal of Materials Chemistry A, 2021, 10, 192-208.	10.3	12
149	Transport of Ions through Cylindrical Ion-Selective Membranes. The Journal of Physical Chemistry, 1996, 100, 12503-12508.	2.9	11
150	Current Efficiency of Ion-Selective Membranes:Â Effects of Local Electroneutrality and Donnan Equilibrium. Journal of Physical Chemistry B, 1997, 101, 7928-7932.	2.6	11
151	Effect of pH on the electrophoretic mobility of a particle with a charge-regulated membrane in a general electrolyte solution. Colloids and Surfaces B: Biointerfaces, 1999, 13, 277-286.	5.0	11
152	Electrokinetic flow in a planar slit covered by an ion-penetrable charged membrane. Electrophoresis, 2000, 21, 3541-3551.	2.4	11
153	Interactions between a Particle Covered by an Ion-Penetrable Charged Membrane and a Charged Surface:Â A Modified Gouyâ˜Chapman Theory. Langmuir, 2002, 18, 2789-2794.	3.5	11
154	Effect of Ionic Sizes on Critical Coagulation Concentration:Â Particles Covered by a Charge-Regulated Membrane. Journal of Physical Chemistry B, 2002, 106, 4269-4275.	2.6	11
155	Electrophoresis of a chargeâ€regulated toroid normal to a large disk. Electrophoresis, 2008, 29, 348-357.	2.4	11
156	Effects of double-layer polarization and electroosmotic flow on the electrophoresis of a finite cylinder along the axis of a cylindrical pore. Chemical Engineering Science, 2008, 63, 4561-4569.	3.8	11
157	3D simulations of hydrodynamic drag on a nonhomogeneously structured permeable sphere and advective flow thereof. Journal of Colloid and Interface Science, 2009, 336, 850-856.	9.4	11
158	Importance of the porous structure of a soft particle on its electrophoretic behavior. Colloids and Surfaces B: Biointerfaces, 2012, 93, 154-160.	5.0	11
159	The effect of multivalent cations on adhesion time for cellular adhesion to solid surfaces. Journal of Theoretical Biology, 1990, 147, 509-516.	1.7	10
160	Electrostatic Interactions between Two Identical Thin Disks of Arbitrary Orientation in an Electrolyte Solution. Langmuir, 1997, 13, 1810-1819.	3.5	10
161	Effect of cell membrane structure of human erythrocyte on its electrophoresis. Colloids and Surfaces B: Biointerfaces, 2003, 32, 203-212.	5.0	10
162	Moving of a nonhomogeneous, porous floc normal to a rigid plate. Journal of Colloid and Interface Science, 2004, 275, 309-316.	9.4	10

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163	Determination of surface charge properties of PC-12 cells by electrophoresis. Journal of Colloid and Interface Science, 2005, 285, 557-561.	9.4	10
164	Theoretical analysis on diffusional release from ellipsoidal drug delivery devices. Chemical Engineering Science, 2006, 61, 1748-1752.	3.8	10
165	Electrophoresis of an Ellipsoid along the Axis of a Cylindrical Pore:â€‰ Effect of a Charged Boundary. Langmuir, 2008, 24, 2929-2937.	3.5	10
166	Diffusiophoresis of a soft spherical particle along the axis of a cylindrical microchannel. Chemical Engineering Science, 2011, 66, 2199-2210.	3.8	10
167	Electrophoresis of a Particle at an Arbitrary Surface Potential and Double Layer Thickness: Importance of Nonuniformly Charged Conditions. Langmuir, 2012, 28, 2997-3004.	3.5	10
168	Importance of Boundary on the Electrophoresis of a Soft Cylindrical Particle. Journal of Physical Chemistry B, 2012, 116, 12626-12632.	2.6	10
169	Electrophoresis of pH-regulated particles in the presence of multiple ionic species. AICHE Journal, 2014, 60, 451-458.	3.6	10
170	Electrophoresis of pH-regulated, zwitterionic particles: Effect of self-induced nonuniform surface charge. Journal of Colloid and Interface Science, 2014, 421, 154-159.	9.4	10
171	Ion transport in a pH-regulated conical nanopore filled with a power-law fluid. Journal of Colloid and Interface Science, 2019, 537, 358-365.	9.4	10
172	Space charge modulation and ion current rectification of a cylindrical nanopore functionalized with polyelectrolyte brushes subject to an applied pH-gradient. Journal of Colloid and Interface Science, 2022, 605, 571-581.	9.4	10
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