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Electrophoretic motion of a spherical particle with a symmetric nonuniform surface charge distribution in a nanotube

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#	Paper	IF	Citations
57	Effects of FluidStructureInteraction and Surface Heterogeneity on the Electrophoresis of Microparticles.		
56	Free-surface problems in electrokinetic micro- and nanofluidics. <i>Mechanics Research Communications</i> , <b>2009</b> , 36, 82-91	2.2	17
55	Effect of linear surface-charge non-uniformities on the electrokinetic ionic-current rectification in conical nanopores. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 329, 376-83	9.3	35
54	Electrophoresis of a Cylindrical Particle with a Nonuniform Zeta Potential Distribution Parallel to a Charged Plane Wall. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 12790-12798	3.8	7
53	dc electrokinetic transport of cylindrical cells in straight microchannels. <i>Biomicrofluidics</i> , <b>2009</b> , 3, 44110	3.2	51
52	DC electrokinetic particle transport in an L-shaped microchannel. <i>Langmuir</i> , <b>2010</b> , 26, 2937-44	4	65
51	The Effect of Axial Concentration Gradient on Electrophoretic Motion of a Charged Spherical Particle in a Nanopore. <i>Microgravity Science and Technology</i> , <b>2010</b> , 22, 329-338	1.6	23
50	Diffusiophoresis of an elongated cylindrical nanoparticle along the axis of a nanopore. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3281-90	3.2	42
49	Manipulating particles in microfluidics by floating electrodes. <i>Electrophoresis</i> , <b>2010</b> , 31, 3711-8	3.6	29
48	Wall-induced lateral migration in particle electrophoresis through a rectangular microchannel. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 347, 142-6	9.3	56
47	Dielectrophoretic choking phenomenon in a converging-diverging microchannel. <i>Biomicrofluidics</i> , <b>2010</b> , 4, 13201	3.2	42
46	Electrodifusiophoretic motion of a charged spherical particle in a nanopore. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4082-93	3.4	34
45	Diffusiophoretic motion of a charged spherical particle in a nanopore. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 6437-46	3.4	20
44	Effects of Electroosmotic Flow on Ionic Current Rectification in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3883-3890	3.8	139
43	Field effect regulation of DNA translocation through a nanopore. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8217-25	7.8	93
42	Electrophoresis of a Membrane-Coated Cylindrical Particle Positioned Eccentrically along the Axis of a Narrow Cylindrical Pore. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16576-16587	3.8	21
41	Effects of double-layer polarization and counterion condensation on the electrophoresis of polyelectrolytes. <i>Soft Matter</i> , <b>2011</b> , 7, 396-411	3.6	62

40	Polarization Effect of a Dielectric Membrane on the Ionic Current Rectification in a Conical Nanopore. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24951-24959	3.8	26
39	Electrokinetic particle translocation through a nanopore. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4060-71	3.6	61
38	Migration of a charged sphere at an arbitrary velocity in an axial electric field. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 390, 86-94	5.1	16
37	Electrophoretic motion of a soft spherical particle in a nanopore. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 88, 165-74	6	32
36	Direct numerical simulation of electrokinetic translocation of a cylindrical particle through a nanopore using a Poisson-Boltzmann approach. <i>Electrophoresis</i> , <b>2011</b> , 32, 996-1005	3.6	25
35	Electrokinetic particle translocation through a nanopore containing a floating electrode. <i>Electrophoresis</i> , <b>2011</b> , 32, 1864-74	3.6	27
34	Electrophoretic motion of a nanorod along the axis of a nanopore under a salt gradient. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 356, 331-40	9.3	9
33	On-demand particle enrichment in a microfluidic channel by a locally controlled floating electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 153, 277-283	8.5	14
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31	Field Effect Control of DNA Translocation through a Nanopore. <i>Surfactant Science</i> , <b>2012</b> , 307-338		
30	Electrokinetic Particle Translocation through a Nanopore Containing a Floating Electrode. <i>Surfactant Science</i> , <b>2012</b> , 339-364		
29	Transient Electrokinetic Motion of a Circular Particle in a Microchannel. <i>Surfactant Science</i> , <b>2012</b> , 53-121		
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27	Electrokinetic Translocation of a Cylindrical Particle through a Nanopore. <i>Surfactant Science</i> , <b>2012</b> , 267-305		
26	Slowing down DNA translocation through a nanopore by lowering fluid temperature. <i>Electrophoresis</i> , <b>2012</b> , 33, 3458-65	3.6	24
25	Electrokinetic motion of a rectangular nanoparticle in a nanochannel. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	12
24	Influence of the shape of a polyelectrolyte on its electrophoretic behavior. <i>Soft Matter</i> , <b>2012</b> , 8, 9469	3.6	19
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21	Electrokinetic particle entry into microchannels. <i>Electrophoresis</i> , <b>2012</b> , 33, 916-22	3.6	17
20	Field effect control of electrokinetic transport in micro/nanofluidics. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 161, 1150-1167	8.5	39
19	Computation of the electrostatic force on a cylindrical colloidal particle: Comparison of the Poisson-Nernst-Planck model and the Poisson-Boltzmann model. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 60, 1102-1113	0.6	1
18	Electrophoresis of a soft sphere in a necked cylindrical nanopore. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11758-65	3.6	13
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16	Electrokinetic behavior of a pH-regulated, zwitterionic nanocylinder in a cylindrical nanopore filled with multiple ionic species. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 411, 162-8	9.3	
15	Electrokinetics of a charged permeable porous aggregate in an aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 433, 64-76	5.1	5
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13	Electrophoresis of pH-regulated, zwitterionic particles: effect of self-induced nonuniform surface charge. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 421, 154-9	9.3	10
12	Influence of electroosmotic flow on the ionic current rectification in a pH-regulated, conical nanopore. <i>Nanoscale</i> , <b>2015</b> , 7, 14023-31	7.7	43
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10	Direct simulation of electroosmosis around a spherical particle with inhomogeneously acquired surface charge. <i>Electrophoresis</i> , <b>2017</b> , 38, 580-595	3.6	2
9	Electrophoresis of hydrophilic/hydrophobic rigid colloid with effects of relaxation and ion size. <i>Electrophoresis</i> , <b>2019</b> , 40, 1282-1292	3.6	14
8	The effects of electrostatic correlations on the ionic current rectification in conical nanopores. <i>Electrophoresis</i> , <b>2019</b> , 40, 2655-2661	3.6	3
7	The Influence of Electric Field Intensity and Particle Length on the Electrokinetic Transport of Cylindrical Particles Passing through Nanopore. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	2
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