Qianqian Cao

List of Publications by Year in descending order

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759233 752698 44 493 12 20 h-index citations g-index papers 44 44 44 378 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 1 | Effects of chain stiffness and salt concentration on responses of polyelectrolyte brushes under external electric field. Biomicrofluidics, 2011, 5, 44119-4411912. | 2.4 | 34 |
| 2 | Controlling electroosmotic flow by polymer coating: a dissipative particle dynamics study. Microfluidics and Nanofluidics, 2011, 10, 977-990. | 2.2 | 31 |
| 3 | Electroosmotic flow in a nanofluidic channel coated with neutral polymers. Microfluidics and Nanofluidics, 2010, 9, 1051-1062. | 2.2 | 30 |
| 4 | A Molecular Dynamics Study of Two Apposing Polyelectrolyte Brushes with Mono―and Multivalent Counterions. Macromolecular Theory and Simulations, 2009, 18, 441-452. | 1.4 | 26 |
| 5 | Interaction of double-stranded DNA with a nanosphere: a coarse-grained molecular dynamics simulation study. Soft Matter, 2011, 7, 506-514. | 2.7 | 26 |
| 6 | Modulation of electroosmotic flow by electric field-responsive polyelectrolyte brushes: a molecular dynamics study. Microfluidics and Nanofluidics, 2012, 12, 649-655. | 2.2 | 26 |
| 7 | Ion-Specific Effects on the Elongation Dynamics of a Nanosized Water Droplet in Applied Electric Fields. Langmuir, 2017, 33, 428-437. | 3. 5 | 26 |
| 8 | Polyelectrolyte adsorption on an oppositely charged spherical polyelectrolyte brush. Soft Matter, 2013, 9, 5087. | 2.7 | 25 |
| 9 | Electroâ€osmotic flow in nanochannels with voltageâ€controlled polyelectrolyte brushes: Dependence on grafting density and normal electric field. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 805-811. | 2.1 | 21 |
| 10 | Anomalous electrokinetics at hydrophobic surfaces: Effects of ion specificity and interfacial water structure. Electrochimica Acta, 2018, 259, 1011-1020. | 5.2 | 20 |
| 11 | Electrostatic binding of oppositely charged surfactants to spherical polyelectrolyte brushes. Physical Chemistry Chemical Physics, 2011, 13, 9706. | 2.8 | 15 |
| 12 | Electroosmotic Flow in Mixed Polymer Brush-Grafted Nanochannels. Polymers, 2016, 8, 438. | 4.5 | 15 |
| 13 | Translocation of nanoparticles through a polymer brush-modified nanochannel. Biomicrofluidics, 2012, 6, 034101. | 2.4 | 14 |
| 14 | Self-assembled nanostructures of bottle-brush polyelectrolytes with oppositely charged surfactants: a computational simulation study. Soft Matter, 2011, 7, 6522. | 2.7 | 12 |
| 15 | Polyampholyte Brushes Grafted on the Surface of a Spherical Cavity: Effect of the Charged Monomer Sequence, Grafting Density, and Chain Stiffness. Langmuir, 2015, 31, 6375-6384. | 3.5 | 12 |
| 16 | Interactions of polyelectrolyte brushes with oppositely charged surfactants. Colloid and Polymer Science, 2011, 289, 1089-1102. | 2.1 | 11 |
| 17 | Dynamics and limitations of spontaneous polyelectrolyte intrusion into a charged nanocavity. Physical Review E, 2014, 90, 060601. | 2.1 | 11 |
| 18 | Thermophoresis of Nanodroplets in Deformed Carbon Nanotubes Due to Nanoindentation. Journal of Physical Chemistry C, 2019, 123, 29750-29758. | 3.1 | 11 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 19 | Molecular dynamics study of electrocoalescence of pure water and salty nanodroplets. Journal of Molecular Liquids, 2021, 332, 115895. | 4.9 | 11 |
| 20 | Electrostatic complexation of linear polyelectrolytes with soft spherical nanoparticles. Chemical Physics Letters, 2013, 586, 51-55. | 2.6 | 10 |
| 21 | Conformational Behavior of Bottleâ€Brush Polyelectrolytes with Charged and Neutral Side Chains. Macromolecular Theory and Simulations, 2010, 19, 298-308. | 1.4 | 9 |
| 22 | Nanopores with Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation. Journal of Macromolecular Science - Physics, 2012, 51, 275-287. | 1.0 | 9 |
| 23 | Anisotropic electrokinetic transport in channels modified with patterned polymer brushes. Soft Matter, 2019, 15, 4132-4145. | 2.7 | 9 |
| 24 | Molecular dynamics simulations of endâ€grafted polymers with charged side chains. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 882-889. | 2.1 | 8 |
| 25 | Modulation of Electroosmotic Flow Using Polyelectrolyte Brushes: A Molecular Dynamics Study. Macromolecular Theory and Simulations, 2012, 21, 145-152. | 1.4 | 7 |
| 26 | DNA packaging in viral capsids with peptide arms. Soft Matter, 2017, 13, 600-607. | 2.7 | 7 |
| 27 | Contact dynamics of nanodroplets in carbon nanotubes: effects of electric field, tube radius, and salt ions. Microfluidics and Nanofluidics, 2018, 22, 1. | 2.2 | 7 |
| 28 | Electrohydrodynamics in nanochannels coated by mixed polymer brushes: effects of electric field strength and solvent quality. Modelling and Simulation in Materials Science and Engineering, 2018, 26, 035003. | 2.0 | 6 |
| 29 | Insights into the hydrogen-bond cross-linking effects of small multiamine molecules on physical and mechanical properties of poly(vinly alcohol) by molecular dynamics simulations. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 035012. | 2.0 | 6 |
| 30 | Charged Nanoparticle Transport in Polymer-Grafted Nanochannels. Journal of Macromolecular Science - Physics, 2013, 52, 852-860. | 1.0 | 5 |
| 31 | Hofmeister effect for electrokinetic transport at ordered DNA layers. Microfluidics and Nanofluidics, 2016, 20, 1. | 2.2 | 5 |
| 32 | Morphologies of spherical polyampholyte brushes: Effects of counterion valence and charged monomer sequence. Polymer, 2017, 113, 233-246. | 3.8 | 5 |
| 33 | Interaction and dynamics of two nanodroplets separated by monolayer graphene. Journal of Molecular Liquids, 2021, , 116987. | 4.9 | 4 |
| 34 | Electrophoresis of Bottleâ€Brush Polyelectrolytes in an Attractive Nanochannel. Macromolecular Theory and Simulations, 2012, 21, 492-499. | 1.4 | 3 |
| 35 | Effect of Counterion Valence on Conformational Behavior of Spherical Polyelectrolyte Brushes Confined between Two Parallel Walls. Polymers, 2018, 10, 363. | 4.5 | 3 |
| 36 | Transport of polymer-modified nanoparticles in nanochannels coated with polymers. RSC Advances, 2019, 9, 38944-38951. | 3.6 | 3 |

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|----|---|-----|-----------|
| 37 | Impact of surface charge density and motor force upon polyelectrolyte packaging in viral capsids. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1054-1065. | 2.1 | 2 |
| 38 | Responsive behavior of polyampholyte brushes in electric fields. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 085012. | 2.0 | 2 |
| 39 | Physical deposition behavior of charged amphiphilic diblock copolymers: Effect of charge distribution and electric field. Polymer Science - Series A, 2017, 59, 253-268. | 1.0 | 2 |
| 40 | Electrohydrodynamics of spherical polyampholyte-grafted nanoparticles: Multiscale simulations by coupling of molecular dynamics and lattice-boltzmann method. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1435-1448. | 2.1 | 2 |
| 41 | Understanding interactions between poly(styrene―co â€sodium styrene sulfonate) and singleâ€walled carbon nanotubes. Journal of Polymer Science, 2021, 59, 182-190. | 3.8 | 2 |
| 42 | Hybrid Particle–Continuum Simulations of Polymer Brushes in Shear Flow. Journal of Macromolecular Science - Physics, 2012, 51, 707-719. | 1.0 | 0 |
| 43 | Monte Carlo simulation of chromatin fibre confined in a nanochannel. E-Polymers, 2012, 12, . | 3.0 | O |
| 44 | Physical deposition behavior of stiff amphiphilic polyelectrolytes in an external electric field. Physica Scripta, 2017, 92, 085701. | 2.5 | 0 |