Qianqian Cao

List of Publications by Year in descending order

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

#	Article	IF	Citations
1	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
2	Molecular dynamics study of electrocoalescence of pure water and salty nanodroplets. Journal of Molecular Liquids, 2021, 332, 115895.	4.9	11
3	Interaction and dynamics of two nanodroplets separated by monolayer graphene. Journal of Molecular Liquids, 2021, , 116987.	4.9	4
4	Understanding interactions between poly(styreneâ€•co â€sodium styrene sulfonate) and singleâ€walled carbon nanotubes. Journal of Polymer Science, 2021, 59, 182-190.	3.8	2
5	Anisotropic electrokinetic transport in channels modified with patterned polymer brushes. Soft Matter, 2019, 15, 4132-4145.	2.7	9
6	Thermophoresis of Nanodroplets in Deformed Carbon Nanotubes Due to Nanoindentation. Journal of Physical Chemistry C, 2019, 123, 29750-29758.	3.1	11
7	Transport of polymer-modified nanoparticles in nanochannels coated with polymers. RSC Advances, 2019, 9, 38944-38951.	3.6	3
8	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
9	Anomalous electrokinetics at hydrophobic surfaces: Effects of ion specificity and interfacial water structure. Electrochimica Acta, 2018, 259, 1011-1020.	5.2	20
10	Effect of Counterion Valence on Conformational Behavior of Spherical Polyelectrolyte Brushes Confined between Two Parallel Walls. Polymers, 2018, 10, 363.	4.5	3
11	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
12	Morphologies of spherical polyampholyte brushes: Effects of counterion valence and charged monomer sequence. Polymer, 2017, 113, 233-246.	3.8	5
13	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
14	Ion-Specific Effects on the Elongation Dynamics of a Nanosized Water Droplet in Applied Electric Fields. Langmuir, 2017, 33, 428-437.	3.5	26
15	DNA packaging in viral capsids with peptide arms. Soft Matter, 2017, 13, 600-607.	2.7	7
16	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
17	Physical deposition behavior of stiff amphiphilic polyelectrolytes in an external electric field. Physica Scripta, 2017, 92, 085701.	2.5	0
18	Electroosmotic Flow in Mixed Polymer Brush-Grafted Nanochannels. Polymers, 2016, 8, 438.	4.5	15

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19	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
20	Responsive behavior of polyampholyte brushes in electric fields. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 085012.	2.0	2
21	Hofmeister effect for electrokinetic transport at ordered DNA layers. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	5
22	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
23	Dynamics and limitations of spontaneous polyelectrolyte intrusion into a charged nanocavity. Physical Review E, 2014, 90, 060601.	2.1	11
24	Electrostatic complexation of linear polyelectrolytes with soft spherical nanoparticles. Chemical Physics Letters, 2013, 586, 51-55.	2.6	10
25	Polyelectrolyte adsorption on an oppositely charged spherical polyelectrolyte brush. Soft Matter, 2013, 9, 5087.	2.7	25
26	Charged Nanoparticle Transport in Polymer-Grafted Nanochannels. Journal of Macromolecular Science - Physics, 2013, 52, 852-860.	1.0	5
27	Translocation of nanoparticles through a polymer brush-modified nanochannel. Biomicrofluidics, 2012, 6, 034101.	2.4	14
28	Nanopores with Solvent-Sensitive Polymer Brushes: A Dissipative Particle Dynamics Simulation. Journal of Macromolecular Science - Physics, 2012, 51, 275-287.	1.0	9
29	Hybrid Particleâ€“Continuum Simulations of Polymer Brushes in Shear Flow. Journal of Macromolecular Science - Physics, 2012, 51, 707-719.	1.0	0
30	Monte Carlo simulation of chromatin fibre confined in a nanochannel. E-Polymers, 2012, 12, .	3.0	0
31	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
32	Modulation of Electroosmotic Flow Using Polyelectrolyte Brushes: A Molecular Dynamics Study. Macromolecular Theory and Simulations, 2012, 21, 145-152.	1.4	7
33	Electrophoresis of Bottleâ€Brush Polyelectrolytes in an Attractive Nanochannel. Macromolecular Theory and Simulations, 2012, 21, 492-499.	1.4	3
34	Modulation of electroosmotic flow by electric field-responsive polyelectrolyte brushes: a molecular dynamics study. Microfluidics and Nanofluidics, 2012, 12, 649-655.	2.2	26
35	Interaction of double-stranded DNA with a nanosphere: a coarse-grained molecular dynamics simulation study. Soft Matter, 2011, 7, 506-514.	2.7	26
36	Self-assembled nanostructures of bottle-brush polyelectrolytes with oppositely charged surfactants: a computational simulation study. Soft Matter, 2011, 7, 6522.	2.7	12

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37	Electrostatic binding of oppositely charged surfactants to spherical polyelectrolyte brushes. Physical Chemistry Chemical Physics, 2011, 13, 9706.	2.8	15
38	Effects of chain stiffness and salt concentration on responses of polyelectrolyte brushes under external electric field. Biomicrofluidics, 2011, 5, 44119-4411912.	2.4	34
39	Interactions of polyelectrolyte brushes with oppositely charged surfactants. Colloid and Polymer Science, 2011, 289, 1089-1102.	2.1	11
40	Controlling electroosmotic flow by polymer coating: a dissipative particle dynamics study. Microfluidics and Nanofluidics, 2011, 10, 977-990.	2.2	31
41	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
42	Electroosmotic flow in a nanofluidic channel coated with neutral polymers. Microfluidics and Nanofluidics, 2010, 9, 1051-1062.	2.2	30
43	Conformational Behavior of Bottleâ€Brush Polyelectrolytes with Charged and Neutral Side Chains. Macromolecular Theory and Simulations, 2010, 19, 298-308.	1.4	9
44	A Molecular Dynamics Study of Two Apposing Polyelectrolyte Brushes with Monoâ€•and Multivalent Counterions. Macromolecular Theory and Simulations, 2009, 18, 441-452.	1.4	26