

Siddhartha Das

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

4,146
citations

32
h-index

60
g-index

144
ext. papers

4,987
ext. citations

5.9
avg, IF

5.94
L-index

#	Paper	IF	Citations
141	Analytical solutions for nonionic and ionic diffusio-osmotic transport at soft and porous interfaces. <i>Physics of Fluids</i> , 2022 , 34, 022102	4.4	
140	Coalescence of Microscopic Polymeric Drops: Effect of Drop Impact Velocities. <i>Langmuir</i> , 2021 , 37, 13514-13526		
139	Atomistic explorations of mechanisms dictating the shear thinning behavior and 3D printability of graphene flake infused epoxy inks. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 24634-24645	3.6	2
138	Thermo-osmotic transport in nanochannels grafted with pH-responsive polyelectrolyte brushes modelled using augmented strong stretching theory. <i>Journal of Fluid Mechanics</i> , 2021 , 917,	3.7	2
137	Quantification of Mono- and Multivalent Counterion-Mediated Bridging in Polyelectrolyte Brushes. <i>Macromolecules</i> , 2021 , 54, 4154-4163	5.5	4
136	Overscreening, Co-Ion-Dominated Electroosmosis, and Electric Field Strength Mediated Flow Reversal in Polyelectrolyte Brush Functionalized Nanochannels. <i>ACS Nano</i> , 2021 , 15, 6507-6516	16.7	7
135	All-Atom Molecular Dynamics Simulations of the Temperature Response of Densely Grafted Polyelectrolyte Brushes. <i>Macromolecules</i> , 2021 , 54, 6342-6354	5.5	5
134	Boron Nitride Nanotube-Salt-Water Hybrid: Toward Zero-Dimensional Liquid Water and Highly Trapped Immobile Single Anions Inside One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14006-14013	3.8	1
133	Hydrogen Bonding and Its Effect on the Orientational Dynamics of Water Molecules inside Polyelectrolyte Brush-Induced Soft and Active Nanoconfinement. <i>Macromolecules</i> , 2021 , 54, 2011-2021	5.5	5
132	Ultrathin and Ultrasensitive Printed Carbon Nanotube-Based Temperature Sensors Capable of Repeated Uses on Surfaces of Widely Varying Curvatures and Wettabilities. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10257-10270	9.5	10
131	Fully printed resonance-free broadband conical inductors using engineered magnetic inks. <i>Additive Manufacturing</i> , 2021 , 44, 102034	6.1	0
130	Wood Ionic Cable. <i>Small</i> , 2021 , 17, e2008200	11	2
129	Wetting Dynamics on Solvophilic, Soft, Porous, and Responsive Surfaces. <i>Macromolecules</i> , 2021 , 54, 584-596	5.96	4
128	Formation and Properties of a Self-Assembled Nanoparticle-Supported Lipid Bilayer Probed through Molecular Dynamics Simulations. <i>Langmuir</i> , 2020 , 36, 5524-5533	4	3
127	Strong stretching theory for pH-responsive polyelectrolyte brushes in large salt concentrations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13536-13553	3.6	1
126	Densely Grafted Polyelectrolyte Brushes Trigger Water-in-Salt-Like Scenarios and Ultraconfinement Effect. <i>Matter</i> , 2020 , 2, 1509-1521	12.7	11
125	Theoretical study on the massively augmented electro-osmotic water transport in polyelectrolyte brush functionalized nanoslits. <i>Physical Review E</i> , 2020 , 102, 013103	2.4	4

124	Coating for preventing nonspecific adhesion mediated biofouling in salty systems: Effect of the electrostatic and van der Waals interactions. <i>Electrophoresis</i> , 2020 , 41, 657-665	3.6	0
123	On the wetting translucency of hexagonal boron nitride. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7710-7718	3.6	9
122	3D Printed Microdroplet Curing: Unravelling the Physics of On-Spot Photopolymerization. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 966-976	4.3	3
121	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , 2020 , 30, 1909196	15.6	37
120	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020 , 32, 1887-1895	9.6	29
119	Effect of Gas Flow Rates on Quality of Aerosol Jet Printed Traces With Nanoparticle Conducting Ink. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2020 , 142,	2	4
118	Lipid flip-flop and desorption from supported lipid bilayers is independent of curvature. <i>PLoS ONE</i> , 2020 , 15, e0244460	3.7	2
117	Ionic current in nanochannels grafted with pH-responsive polyelectrolyte brushes modeled using augmented strong stretching theory. <i>Electrophoresis</i> , 2020 , 41, 554-561	3.6	5
116	Wettability of nanostructured hexagonal boron nitride surfaces: molecular dynamics insights on the effect of wetting anisotropy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2488-2497	3.6	9
115	Quantifying Water Friction in Misaligned Graphene Channels under High Confinements. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35757-35764	9.5	4
114	Water-free Localization of Anion at Anode for Small-Concentration Water-in-Salt Electrolytes Confined in Boron-Nitride Nanotube. <i>Cell Reports Physical Science</i> , 2020 , 1, 100246	6.1	2
113	All-atom molecular dynamics simulations of weak polyionic brushes: influence of charge density on the properties of polyelectrolyte chains, brush-supported counterions, and water molecules. <i>Soft Matter</i> , 2020 , 16, 7808-7822	3.6	8
112	Coarse-grained modelling of DNA plectoneme pinning in the presence of base-pair mismatches. <i>Nucleic Acids Research</i> , 2020 , 48, 10713-10725	20.1	2
111	Ionic diffusioosmotic transport in nanochannels grafted with pH-responsive polyelectrolyte brushes modeled using augmented strong stretching theory. <i>Physics of Fluids</i> , 2020 , 32, 042003	4.4	4
110	Direct-write printed broadband inductors. <i>Additive Manufacturing</i> , 2019 , 30, 100843	6.1	8
109	Supersolvophobic Soft Wetting: Nanoscale Elastocapillarity, Adhesion, and Retention of a Drop Behaving as a Nanoparticle. <i>Matter</i> , 2019 , 1, 1262-1273	12.7	5
108	Revisiting the strong stretching theory for pH-responsive polyelectrolyte brushes: effects of consideration of excluded volume interactions and an expanded form of the mass action law. <i>Soft Matter</i> , 2019 , 15, 559-574	3.6	17
107	Nanovesicles Versus Nanoparticle-Supported Lipid Bilayers: Massive Differences in Bilayer Structures and in Diffusivities of Lipid Molecules and Nanoconfined Water. <i>Langmuir</i> , 2019 , 35, 2702-2708	4	1

106	Interactions of gold and silica nanoparticles with plasma membranes get distinguished by the van der Waals forces: Implications for drug delivery, imaging, and theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 177, 433-439	6	9
105	Thermomechanical responses of microfluidic cantilever capture DNA melting and properties of DNA premelting states using picoliters of DNA solution. <i>Applied Physics Letters</i> , 2019 , 114, 173703	3.4	6
104	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019 , 18, 608-613	27	187
103	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , 2019 , 12, 1558-1567	35.4	269
102	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019 , 29, 1900162	15.6	64
101	Electrostatics and Interactions of an Ionizable Silica Nanoparticle Approaching a Plasma Membrane. <i>Langmuir</i> , 2019 , 35, 4171-4181	4	1
100	Electrokinetic energy conversion in nanochannels grafted with pH-responsive polyelectrolyte brushes modelled using augmented strong stretching theory. <i>Soft Matter</i> , 2019 , 15, 5973-5986	3.6	15
99	Cracks in the 3D-printed conductive traces of silver nanoparticle ink. <i>Journal of Micromechanics and Microengineering</i> , 2019 , 29, 097001	2	4
98	Shape-driven arrest of coffee stain effect drives the fabrication of carbon-nanotube-graphene-oxide inks for printing embedded structures and temperature sensors. <i>Nanoscale</i> , 2019 , 11, 23402-23415	7.7	7
97	Non-monotonic dependence of fluid dissipation on fluid density in fluid-coupled nanoresonators. <i>Applied Physics Letters</i> , 2019 , 115, 251601	3.4	2
96	Direct-Write Printed, Solid-Core Solenoid Inductors with Commercially Relevant Inductances. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800312	6.8	9
95	Theory of diffusioosmosis in a charged nanochannel. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10204-10212	4.6	20
94	Surface charges promote nonspecific nanoparticle adhesion to stiffer membranes. <i>Applied Physics Letters</i> , 2018 , 112, 163702	3.4	8
93	Electric double layer electrostatics of lipid-bilayer-encapsulated nanoparticles: Toward a better understanding of protocell electrostatics. <i>Electrophoresis</i> , 2018 , 39, 752-759	3.6	5
92	Effect of Plasma Membrane Semipermeability in Making the Membrane Electric Double Layer Capacitances Significant. <i>Langmuir</i> , 2018 , 34, 1760-1766	4	4
91	The Effect of Droplet Sizes on Overspray in Aerosol-Jet Printing. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701084	3.5	35
90	Polyelectrolyte brush bilayers in weak interpenetration regime: Scaling theory and molecular dynamics simulations. <i>Physical Review E</i> , 2018 , 97, 032503	2.4	9
89	Soft wetting: Models based on energy dissipation or on force balance are equivalent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7233	11.5	3

88	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018 , 8, 1701616	21.8	174
87	Water/Holey-Graphene Interactions: Route to Highly Enhanced Water-Accessible Graphene Surface Area. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5907-5919	5.6	5
86	Electrokinetics in nanochannels grafted with poly-zwitterionic brushes. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	7
85	Flexible, Bio-Compatible Nanofluidic Ion Conductor. <i>Chemistry of Materials</i> , 2018 , 30, 7707-7713	9.6	36
84	Ion at Air-Water Interface Enhances Capillary Wave Fluctuations: Energetics of Ion Adsorption. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12853-12861	16.4	9
83	Lubrication in polymer-brush bilayers in the weak interpenetration regime: Molecular dynamics simulations and scaling theories. <i>Physical Review E</i> , 2018 , 98, 022503	2.4	5
82	Highly enhanced liquid flows via thermoosmotic effects in soft and charged nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24300-24316	3.6	10
81	Dynamics of a Water Nanodrop through a Holey Graphene Matrix: Role of Surface Functionalization, Capillarity, and Applied Forcing. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12243-12250	2.8	5
80	Efficient electrochemomechanical energy conversion in nanochannels grafted with end-charged polyelectrolyte brushes at medium and high salt concentration. <i>Soft Matter</i> , 2018 , 14, 5246-5255	3.6	20
79	Electrostatically motivated design of biomimetic nanoparticles: Promoting specific adhesion and preventing nonspecific adhesion simultaneously. <i>Applied Physics Letters</i> , 2018 , 112, 243702	3.4	4
78	Ionic Diffusoosmosis in Nanochannels Grafted with End-Charged Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7450-7461	3.4	13
77	Roughness-Induced Chemical Heterogeneity Leads to Large Hydrophobicity in Wetting-Translucent Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10010-10017	3.8	16
76	Compression of polymer brushes in the weak interpenetration regime: scaling theory and molecular dynamics simulations. <i>Soft Matter</i> , 2017 , 13, 4159-4166	3.6	11
75	Effect of electric double layer on electro-spreading dynamics of electrolyte drops. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 514, 209-217	5.1	5
74	Drop spreading on a superhydrophobic surface: pinned contact line and bending liquid surface. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14442-14452	3.6	5
73	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , 2017 , 11, 4275-4282	16.7	272
72	Massively Enhanced Electroosmotic Transport in Nanochannels Grafted with End-Charged Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3130-3141	3.4	31
71	Charge inversion and external salt effect in semi-permeable membrane electrostatics. <i>Journal of Membrane Science</i> , 2017 , 533, 364-377	9.6	11

70	Elasto-electro-capillarity: drop equilibrium on a charged, elastic solid. <i>Soft Matter</i> , 2017 , 13, 554-566	3.6	4
69	Thermodynamics, electrostatics, and ionic current in nanochannels grafted with pH-responsive end-charged polyelectrolyte brushes. <i>Electrophoresis</i> , 2017 , 38, 720-729	3.6	5
68	Positive zeta potential of a negatively charged semi-permeable plasma membrane. <i>Applied Physics Letters</i> , 2017 , 111, 063702	3.4	9
67	Interaction between a water drop and holey graphene: retarded imbibition and generation of novel water-graphene wetting states. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27421-27434	3.6	6
66	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017 , 29, 1704107	24	346
65	Inkwells for on-demand deposition rate measurement in aerosol-jet based 3D printing. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 097001	2	25
64	Dynamical theory of the inverted cheerios effect. <i>Soft Matter</i> , 2017 , 13, 6000-6010	3.6	11
63	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , 2017 , 1, 588-599	27.8	242
62	Aerosol-Jet Printed Fillets for Well-Formed Electrical Connections between Different Levelled Surfaces. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700178	6.8	18
61	A High-Performance, Low-Tortuosity Wood-Carbon Monolith Reactor. <i>Advanced Materials</i> , 2017 , 29, 1604257	4.7	69
60	Role of plasma membrane surface charges in dictating the feasibility of membrane-nanoparticle interactions. <i>Applied Physics Letters</i> , 2017 , 111, 263702	3.4	9
59	Effect of Steam-Assisted Gravity Drainage Produced Water Properties on Oil/Water Transient Interfacial Tension. <i>Energy & Fuels</i> , 2016 , 30, 10714-10720	4.1	11
58	Scaling Relationships for Spherical Polymer Brushes Revisited. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5272-7	3.4	8
57	Liquid drops attract or repel by the inverted Cheerios effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7403-7	11.5	78
56	Wetting dynamics of a water nanodrop on graphene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23483-93	3.9	51
55	Efficient electrochemomechanical energy conversion in nanochannels grafted with polyelectrolyte layers with pH-dependent charge density. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	34
54	Electric double layer effects in water separation from water-in-oil emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 489, 216-222	5.1	9
53	Anomalous Shrinking-Swelling of Nanoconfined End-Charged Polyelectrolyte Brushes: Interplay of Confinement and Electrostatic Effects. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 6848-57	3.4	18

52	Ultrafast Microwave Nano-manufacturing of Fullerene-Like Metal Chalcogenides. <i>Scientific Reports</i> , 2016 , 6, 22503	4.9	26
51	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , 2016 , 52, 5757-60	5.8	23
50	Role of the Shuttleworth effect in adhesion on elastic surfaces. <i>MRS Advances</i> , 2016 , 1, 621-630	0.7	
49	Effect of solvent polarization on electroosmotic transport in a nanofluidic channel. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	3
48	Electric double layer electrostatics of pH-responsive spherical polyelectrolyte brushes in the decoupled regime. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 147, 180-190	6	4
47	Streaming potential and electroviscous effects in soft nanochannels beyond Debye-Hückel linearization. <i>Journal of Colloid and Interface Science</i> , 2015 , 445, 357-363	9.3	72
46	Scaling Laws and Ionic Current Inversion in Polyelectrolyte-Grafted Nanochannels. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12714-26	3.4	18
45	Electroosmotic transport in polyelectrolyte-grafted nanochannels with pH-dependent charge density. <i>Journal of Applied Physics</i> , 2015 , 117, 185304	2.5	49
44	Polyelectrolyte brushes: theory, modelling, synthesis and applications. <i>Soft Matter</i> , 2015 , 11, 8550-83	3.6	106
43	Mapping and Quantifying Surface Charges on Clay Nanoparticles. <i>Langmuir</i> , 2015 , 31, 10469-76	4	25
42	Conditions for spontaneous oil/water separation with oil/water separators. <i>RSC Advances</i> , 2015 , 5, 80184-80191	3.9	12
41	Electrostatics of soft charged interfaces with pH-dependent charge density: effect of consideration of appropriate hydrogen ion concentration distribution. <i>RSC Advances</i> , 2015 , 5, 4493-4501	3.7	27
40	Bacterial floc mediated rapid streamer formation in creeping flows. <i>Scientific Reports</i> , 2015 , 5, 13070	4.9	30
39	Effect of finite ion sizes in electric double layer mediated interaction force between two soft charged plates. <i>RSC Advances</i> , 2015 , 5, 46873-46880	3.7	22
38	Electrostatic potential distribution of a soft spherical particle with a charged core and pH-dependent charge density. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 127, 143-7	6	26
37	Effect of finite ion sizes in an electrostatic potential distribution for a charged soft surface in contact with an electrolyte solution. <i>Physical Review E</i> , 2014 , 89, 012307	2.4	31
36	Filling of charged cylindrical capillaries. <i>Physical Review E</i> , 2014 , 90, 043011	2.4	25
35	Streaming potential and electroviscous effects in soft nanochannels: towards designing more efficient nanofluidic electrochemomechanical energy converters. <i>Soft Matter</i> , 2014 , 10, 7558-68	3.6	101

34	Formation and post-formation dynamics of bacterial biofilm streamers as highly viscous liquid jets. <i>Scientific Reports</i> , 2014 , 4, 7126	4.9	23
33	Electric double-layer interactions in a wedge geometry: change in contact angle for drops and bubbles. <i>Physical Review E</i> , 2013 , 88, 033021	2.4	16
32	Exploring new scaling regimes for streaming potential and electroviscous effects in a nanocapillary with overlapping electric double layers. <i>Analytica Chimica Acta</i> , 2013 , 804, 159-66	6.6	66
31	Contribution of interfacial electrostriction in surface tension. <i>Journal of Colloid and Interface Science</i> , 2013 , 400, 130-4	9.3	2
30	Different regimes in vertical capillary filling. <i>Physical Review E</i> , 2013 , 87, 063005	2.4	42
29	Drop deposition on under-liquid low energy surfaces. <i>Soft Matter</i> , 2013 , 9, 7437	3.6	15
28	Electric double layer force between charged surfaces: effect of solvent polarization. <i>Journal of Chemical Physics</i> , 2013 , 138, 114703	3.9	36
27	Contact angles on a soft solid: from Young's law to Neumann's law. <i>Physical Review Letters</i> , 2012 , 109, 236101	7.4	126
26	Dynamics of liquid droplets in an evaporating drop: liquid droplet coffee stain effect. <i>RSC Advances</i> , 2012 , 2, 8390	3.7	19
25	Magnetohydrodynamics in narrow fluidic channels in presence of spatially non-uniform magnetic fields: framework for combined magnetohydrodynamic and magnetophoretic particle transport. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 799-807	2.8	36
24	Concentration polarization in translocation of DNA through nanopores and nanochannels. <i>Physical Review Letters</i> , 2012 , 108, 138101	7.4	40
23	Capillary pressure and contact line force on a soft solid. <i>Physical Review Letters</i> , 2012 , 108, 094301	7.4	83
22	Early regimes of capillary filling. <i>Physical Review E</i> , 2012 , 86, 067301	2.4	53
21	Redefining electrical double layer thickness in narrow confinements: effect of solvent polarization. <i>Physical Review E</i> , 2012 , 85, 051508	2.4	46
20	Wenzel and Cassie-Baxter states of an electrolytic drop on charged surfaces. <i>Physical Review E</i> , 2012 , 86, 011603	2.4	19
19	Ring stains in the presence of electromagnetohydrodynamic interactions. <i>Physical Review E</i> , 2012 , 86, 056317	2.4	11
18	Electric-double-layer potential distribution in multiple-layer immiscible electrolytes: effect of finite ion sizes. <i>Physical Review E</i> , 2012 , 85, 012502	2.4	13
17	Ring stains in the presence of electrokinetic interactions. <i>Physical Review E</i> , 2012 , 85, 046311	2.4	22

16	Steric-effect-induced enhancement of electrical-double-layer overlapping phenomena. <i>Physical Review E</i> , 2011 , 84, 012501	2.4	51
15	Elastic deformation due to tangential capillary forces. <i>Physics of Fluids</i> , 2011 , 23, 072006	4.4	71
14	Effect of impurities in the description of surface nanobubbles: role of nonidealities in the surface layer. <i>Physical Review E</i> , 2011 , 83, 066315	2.4	14
13	Elastocapillary instability under partial wetting conditions: bending versus buckling. <i>Physical Review E</i> , 2011 , 84, 061601	2.4	11
12	Electric-double-layer potential distribution in multiple-layer immiscible electrolytes. <i>Physical Review E</i> , 2011 , 84, 022502	2.4	6
11	Effect of added salt on preformed surface nanobubbles: a scaling estimate. <i>Physical Review E</i> , 2011 , 84, 036303	2.4	14
10	Effect of confinement on the collapsing mechanism of a flexible polymer chain. <i>Journal of Chemical Physics</i> , 2010 , 133, 174904	3.9	13
9	Effect of conductivity variations within the electric double layer on the streaming potential estimation in narrow fluidic confinements. <i>Langmuir</i> , 2010 , 26, 11589-96	4	62
8	Effect of impurities in description of surface nanobubbles. <i>Physical Review E</i> , 2010 , 82, 056310	2.4	34
7	Influences of streaming potential on cross stream migration of flexible polymer molecules in nanochannel flows. <i>Journal of Chemical Physics</i> , 2009 , 130, 244904	3.9	21
6	Influence of streaming potential on the transport and separation of charged spherical solutes in nanochannels subjected to particle-wall interactions. <i>Langmuir</i> , 2009 , 25, 9863-72	4	27
5	Transport and separation of charged macromolecules under nonlinear electromigration in nanochannels. <i>Langmuir</i> , 2008 , 24, 7704-10	4	14
4	Streaming-field-induced convective transport and its influence on the electroviscous effects in narrow fluidic confinement beyond the Debye-Hückel limit. <i>Physical Review E</i> , 2008 , 77, 037303	2.4	78
3	Analytical investigations on the effects of substrate kinetics on macromolecular transport and hybridization through microfluidic channels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 58, 203-17	6	17
2	Physically Soft Magnetic Films and Devices: Fabrication, Properties, Printability, and Applications. <i>Journal of Materials Chemistry C</i> ,	7.1	0
1	Interplay of Local Heating, Nanoconfinement, and Tunable Liquid-Wall Interactions Drive Rapid Imbibition and Pronounced Mixing Between Two Immiscible Liquids. <i>Journal of Physical Chemistry Letters</i> , 5137-5142	6.4	