

# Siddhartha Das

## List of Publications by Citations

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141  
papers

4,146  
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32  
h-index

60  
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144  
ext. papers

4,987  
ext. citations

5.9  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
141	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704107	24	346
140	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , <b>2017</b> , 11, 4275-4282	16.7	272
139	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1558-1567	35.4	269
138	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , <b>2017</b> , 1, 588-599	27.8	242
137	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , <b>2019</b> , 18, 608-613	27	187
136	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701616	21.8	174
135	Contact angles on a soft solid: from Young's law to Neumann's law. <i>Physical Review Letters</i> , <b>2012</b> , 109, 236101	7.4	126
134	Polyelectrolyte brushes: theory, modelling, synthesis and applications. <i>Soft Matter</i> , <b>2015</b> , 11, 8550-83	3.6	106
133	Streaming potential and electroviscous effects in soft nanochannels: towards designing more efficient nanofluidic electrochemomechanical energy converters. <i>Soft Matter</i> , <b>2014</b> , 10, 7558-68	3.6	101
132	Capillary pressure and contact line force on a soft solid. <i>Physical Review Letters</i> , <b>2012</b> , 108, 094301	7.4	83
131	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> , <b>2016</b> , 113, 7403-7	11.5	78
130	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> , <b>2008</b> , 77, 037303	2.4	78
129	Streaming potential and electroviscous effects in soft nanochannels beyond Debye-Hückel linearization. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 357-363	9.3	72
128	Elastic deformation due to tangential capillary forces. <i>Physics of Fluids</i> , <b>2011</b> , 23, 072006	4.4	71
127	A High-Performance, Low-Tortuosity Wood-Carbon Monolith Reactor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604257	25.7	69
126	Exploring new scaling regimes for streaming potential and electroviscous effects in a nanocapillary with overlapping electric double layers. <i>Analytica Chimica Acta</i> , <b>2013</b> , 804, 159-66	6.6	66
125	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900162	15.6	64

124	Effect of conductivity variations within the electric double layer on the streaming potential estimation in narrow fluidic confinements. <i>Langmuir</i> , <b>2010</b> , 26, 11589-96	4	62
123	Early regimes of capillary filling. <i>Physical Review E</i> , <b>2012</b> , 86, 067301	2.4	53
122	Wetting dynamics of a water nanodrop on graphene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23482-93	3.9	51
121	Steric-effect-induced enhancement of electrical-double-layer overlapping phenomena. <i>Physical Review E</i> , <b>2011</b> , 84, 012501	2.4	51
120	Electroosmotic transport in polyelectrolyte-grafted nanochannels with pH-dependent charge density. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 185304	2.5	49
119	Redefining electrical double layer thickness in narrow confinements: effect of solvent polarization. <i>Physical Review E</i> , <b>2012</b> , 85, 051508	2.4	46
118	Different regimes in vertical capillary filling. <i>Physical Review E</i> , <b>2013</b> , 87, 063005	2.4	42
117	Concentration polarization in translocation of DNA through nanopores and nanochannels. <i>Physical Review Letters</i> , <b>2012</b> , 108, 138101	7.4	40
116	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909196	15.6	37
115	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> , <b>2012</b> , 13, 799-807	2.8	36
114	Electric double layer force between charged surfaces: effect of solvent polarization. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 114703	3.9	36
113	Flexible, Bio-Compatible Nanofluidic Ion Conductor. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7707-7713	9.6	36
112	The Effect of Droplet Sizes on Overspray in Aerosol-Jet Printing. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1701084	3.5	35
111	Efficient electrochemomechanical energy conversion in nanochannels grafted with polyelectrolyte layers with pH-dependent charge density. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	34
110	Effect of impurities in description of surface nanobubbles. <i>Physical Review E</i> , <b>2010</b> , 82, 056310	2.4	34
109	Massively Enhanced Electroosmotic Transport in Nanochannels Grafted with End-Charged Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 3130-3141	3.4	31
108	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> , <b>2014</b> , 89, 012307	2.4	31
107	Bacterial floc mediated rapid streamer formation in creeping flows. <i>Scientific Reports</i> , <b>2015</b> , 5, 13070	4.9	30

106	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1887-1895	9.6	29
105	Electrostatics of soft charged interfaces with pH-dependent charge density: effect of consideration of appropriate hydrogen ion concentration distribution. <i>RSC Advances</i> , <b>2015</b> , 5, 4493-4501	3.7	27
104	Influence of streaming potential on the transport and separation of charged spherical solutes in nanochannels subjected to particle-wall interactions. <i>Langmuir</i> , <b>2009</b> , 25, 9863-72	4	27
103	Electrostatic potential distribution of a soft spherical particle with a charged core and pH-dependent charge density. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 127, 143-7	6	26
102	Ultrafast Microwave Nano-manufacturing of Fullerene-Like Metal Chalcogenides. <i>Scientific Reports</i> , <b>2016</b> , 6, 22503	4.9	26
101	Mapping and Quantifying Surface Charges on Clay Nanoparticles. <i>Langmuir</i> , <b>2015</b> , 31, 10469-76	4	25
100	Filling of charged cylindrical capillaries. <i>Physical Review E</i> , <b>2014</b> , 90, 043011	2.4	25
99	Ink wells for on-demand deposition rate measurement in aerosol-jet based 3D printing. <i>Journal of Micromechanics and Microengineering</i> , <b>2017</b> , 27, 097001	2	25
98	Formation and post-formation dynamics of bacterial biofilm streamers as highly viscous liquid jets. <i>Scientific Reports</i> , <b>2014</b> , 4, 7126	4.9	23
97	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , <b>2016</b> , 52, 5757-60	5.8	23
96	Effect of finite ion sizes in electric double layer mediated interaction force between two soft charged plates. <i>RSC Advances</i> , <b>2015</b> , 5, 46873-46880	3.7	22
95	Ring stains in the presence of electrokinetic interactions. <i>Physical Review E</i> , <b>2012</b> , 85, 046311	2.4	22
94	Influences of streaming potential on cross stream migration of flexible polymer molecules in nanochannel flows. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 244904	3.9	21
93	Efficient electrochemomechanical energy conversion in nanochannels grafted with end-charged polyelectrolyte brushes at medium and high salt concentration. <i>Soft Matter</i> , <b>2018</b> , 14, 5246-5255	3.6	20
92	Dynamics of liquid droplets in an evaporating drop: liquid droplet coffee stain effect. <i>RSC Advances</i> , <b>2012</b> , 2, 8390	3.7	19
91	Wenzel and Cassie-Baxter states of an electrolytic drop on charged surfaces. <i>Physical Review E</i> , <b>2012</b> , 86, 011603	2.4	19
90	Scaling Laws and Ionic Current Inversion in Polyelectrolyte-Grafted Nanochannels. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 12714-26	3.4	18
89	Aerosol-Jet Printed Fillets for Well-Formed Electrical Connections between Different Leveled Surfaces. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700178	6.8	18

88	Anomalous Shrinking-Swelling of Nanoconfined End-Charged Polyelectrolyte Brushes: Interplay of Confinement and Electrostatic Effects. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 6848-57	3.4	18
87	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> , <b>2019</b> , 15, 559-574	3.6	17
86	Analytical investigations on the effects of substrate kinetics on macromolecular transport and hybridization through microfluidic channels. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2007</b> , 58, 203-17	6	17
85	Roughness-Induced Chemical Heterogeneity Leads to Large Hydrophobicity in Wetting-Translucent Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10010-10017	3.8	16
84	Electric double-layer interactions in a wedge geometry: change in contact angle for drops and bubbles. <i>Physical Review E</i> , <b>2013</b> , 88, 033021	2.4	16
83	Electrokinetic energy conversion in nanochannels grafted with pH-responsive polyelectrolyte brushes modelled using augmented strong stretching theory. <i>Soft Matter</i> , <b>2019</b> , 15, 5973-5986	3.6	15
82	Drop deposition on under-liquid low energy surfaces. <i>Soft Matter</i> , <b>2013</b> , 9, 7437	3.6	15
81	Effect of impurities in the description of surface nanobubbles: role of nonidealities in the surface layer. <i>Physical Review E</i> , <b>2011</b> , 83, 066315	2.4	14
80	Effect of added salt on preformed surface nanobubbles: a scaling estimate. <i>Physical Review E</i> , <b>2011</b> , 84, 036303	2.4	14
79	Transport and separation of charged macromolecules under nonlinear electromigration in nanochannels. <i>Langmuir</i> , <b>2008</b> , 24, 7704-10	4	14
78	Electric-double-layer potential distribution in multiple-layer immiscible electrolytes: effect of finite ion sizes. <i>Physical Review E</i> , <b>2012</b> , 85, 012502	2.4	13
77	Effect of confinement on the collapsing mechanism of a flexible polymer chain. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 174904	3.9	13
76	Ionic Diffusosmosis in Nanochannels Grafted with End-Charged Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 7450-7461	3.4	13
75	Compression of polymer brushes in the weak interpenetration regime: scaling theory and molecular dynamics simulations. <i>Soft Matter</i> , <b>2017</b> , 13, 4159-4166	3.6	11
74	Charge inversion and external salt effect in semi-permeable membrane electrostatics. <i>Journal of Membrane Science</i> , <b>2017</b> , 533, 364-377	9.6	11
73	Densely Grafted Polyelectrolyte Brushes Trigger Water-in-Salt-Like Scenarios and Ultraconfinement Effect. <i>Matter</i> , <b>2020</b> , 2, 1509-1521	12.7	11
72	Effect of Steam-Assisted Gravity Drainage Produced Water Properties on Oil/Water Transient Interfacial Tension. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 10714-10720	4.1	11
71	Dynamical theory of the inverted cheerios effect. <i>Soft Matter</i> , <b>2017</b> , 13, 6000-6010	3.6	11

70	Ring stains in the presence of electromagnetohydrodynamic interactions. <i>Physical Review E</i> , <b>2012</b> , 86, 056317	2.4	11
69	Elastocapillary instability under partial wetting conditions: bending versus buckling. <i>Physical Review E</i> , <b>2011</b> , 84, 061601	2.4	11
68	Theory of diffusioosmosis in a charged nanochannel. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10204-10212	3.6	10
67	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 &amp; Interfaces</i> , <b>2021</b> , 13, 10257-10270	9.5	10
66	Highly enhanced liquid flows via thermoosmotic effects in soft and charged nanochannels. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24300-24316	3.6	10
65	Positive zeta potential of a negatively charged semi-permeable plasma membrane. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 063702	3.4	9
64	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> , <b>2019</b> , 177, 433-439	6	9
63	On the wetting translucency of hexagonal boron nitride. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 7710-7718	3.6	9
62	Polyelectrolyte brush bilayers in weak interpenetration regime: Scaling theory and molecular dynamics simulations. <i>Physical Review E</i> , <b>2018</b> , 97, 032503	2.4	9
61	Electric double layer effects in water separation from water-in-oil emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 489, 216-222	5.1	9
60	Role of plasma membrane surface charges in dictating the feasibility of membrane-nanoparticle interactions. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 263702	3.4	9
59	Wettability of nanostructured hexagonal boron nitride surfaces: molecular dynamics insights on the effect of wetting anisotropy. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2488-2497	3.6	9
58	Direct-Write Printed, Solid-Core Solenoid Inductors with Commercially Relevant Inductances. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800312	6.8	9
57	Ion at Air-Water Interface Enhances Capillary Wave Fluctuations: Energetics of Ion Adsorption. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12853-12861	16.4	9
56	Direct-write printed broadband inductors. <i>Additive Manufacturing</i> , <b>2019</b> , 30, 100843	6.1	8
55	Surface charges promote nonspecific nanoparticle adhesion to stiffer membranes. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 163702	3.4	8
54	Scaling Relationships for Spherical Polymer Brushes Revisited. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5272-7	3.4	8
53	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> , <b>2020</b> , 16, 7808-7822	3.6	8

52	Overscreening, Co-Ion-Dominated Electroosmosis, and Electric Field Strength Mediated Flow Reversal in Polyelectrolyte Brush Functionalized Nanochannels. <i>ACS Nano</i> , <b>2021</b> , 15, 6507-6516	16.7	7
51	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> , <b>2019</b> , 11, 23402-23415	7.7	7
50	Electrokinetics in nanochannels grafted with poly-zwitterionic brushes. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	7
49	Interaction between a water drop and holey graphene: retarded imbibition and generation of novel water-graphene wetting states. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27421-27434	3.6	6
48	Thermomechanical responses of microfluidic cantilever capture DNA melting and properties of DNA premelting states using picoliters of DNA solution. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 173703	3.4	6
47	Electric-double-layer potential distribution in multiple-layer immiscible electrolytes. <i>Physical Review E</i> , <b>2011</b> , 84, 022502	2.4	6
46	Effect of electric double layer on electro-spreading dynamics of electrolyte drops. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 514, 209-217	5.1	5
45	Drop spreading on a superhydrophobic surface: pinned contact line and bending liquid surface. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14442-14452	3.6	5
44	Thermodynamics, electrostatics, and ionic current in nanochannels grafted with pH-responsive end-charged polyelectrolyte brushes. <i>Electrophoresis</i> , <b>2017</b> , 38, 720-729	3.6	5
43	Supersolvophobic Soft Wetting: Nanoscale Elastocapillarity, Adhesion, and Retention of a Drop Behaving as a Nanoparticle. <i>Matter</i> , <b>2019</b> , 1, 1262-1273	12.7	5
42	Electric double layer electrostatics of lipid-bilayer-encapsulated nanoparticles: Toward a better understanding of protocell electrostatics. <i>Electrophoresis</i> , <b>2018</b> , 39, 752-759	3.6	5
41	Ionic current in nanochannels grafted with pH-responsive polyelectrolyte brushes modeled using augmented strong stretching theory. <i>Electrophoresis</i> , <b>2020</b> , 41, 554-561	3.6	5
40	All-Atom Molecular Dynamics Simulations of the Temperature Response of Densely Grafted Polyelectrolyte Brushes. <i>Macromolecules</i> , <b>2021</b> , 54, 6342-6354	5.5	5
39	Hydrogen Bonding and Its Effect on the Orientational Dynamics of Water Molecules inside Polyelectrolyte Brush-Induced Soft and Active Nanoconfinement. <i>Macromolecules</i> , <b>2021</b> , 54, 2011-2021	5.5	5
38	Water-Holey-Graphene Interactions: Route to Highly Enhanced Water-Accessible Graphene Surface Area. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 5907-5919	5.6	5
37	Lubrication in polymer-brush bilayers in the weak interpenetration regime: Molecular dynamics simulations and scaling theories. <i>Physical Review E</i> , <b>2018</b> , 98, 022503	2.4	5
36	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> , <b>2018</b> , 122, 12243-12250	3.8	5
35	Elasto-electro-capillarity: drop equilibrium on a charged, elastic solid. <i>Soft Matter</i> , <b>2017</b> , 13, 554-566	3.6	4

34	Theoretical study on the massively augmented electro-osmotic water transport in polyelectrolyte brush functionalized nanoslits. <i>Physical Review E</i> , <b>2020</b> , 102, 013103	2.4	4
33	Effect of Plasma Membrane Semipermeability in Making the Membrane Electric Double Layer Capacitances Significant. <i>Langmuir</i> , <b>2018</b> , 34, 1760-1766	4	4
32	Cracks in the 3D-printed conductive traces of silver nanoparticle ink. <i>Journal of Micromechanics and Microengineering</i> , <b>2019</b> , 29, 097001	2	4
31	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> , <b>2020</b> , 142,	2	4
30	Quantifying Water Friction in Misaligned Graphene Channels under High Confinements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35757-35764	9.5	4
29	Quantification of Mono- and Multivalent Counterion-Mediated Bridging in Polyelectrolyte Brushes. <i>Macromolecules</i> , <b>2021</b> , 54, 4154-4163	5.5	4
28	Electric double layer electrostatics of pH-responsive spherical polyelectrolyte brushes in the decoupled regime. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 147, 180-190	6	4
27	Ionic diffusioosmotic transport in nanochannels grafted with pH-responsive polyelectrolyte brushes modeled using augmented strong stretching theory. <i>Physics of Fluids</i> , <b>2020</b> , 32, 042003	4.4	4
26	Electrostatically motivated design of biomimetic nanoparticles: Promoting specific adhesion and preventing nonspecific adhesion simultaneously. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 243702	3.4	4
25	Wetting Dynamics on Solvophilic, Soft, Porous, and Responsive Surfaces. <i>Macromolecules</i> , <b>2021</b> , 54, 584-596	5.36	4
24	Formation and Properties of a Self-Assembled Nanoparticle-Supported Lipid Bilayer Probed through Molecular Dynamics Simulations. <i>Langmuir</i> , <b>2020</b> , 36, 5524-5533	4	3
23	3D Printed Microdroplet Curing: Unravelling the Physics of On-Spot Photopolymerization. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 966-976	4.3	3
22	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> , <b>2018</b> , 115, E7233	11.5	3
21	Effect of solvent polarization on electroosmotic transport in a nanofluidic channel. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	3
20	Conditions for spontaneous oil/water separation with oil/water separators. <i>RSC Advances</i> , <b>2015</b> , 5, 80184-80191	3.7	2
19	Contribution of interfacial electrostriction in surface tension. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 400, 130-4	9.3	2
18	Coalescence of Microscopic Polymeric Drops: Effect of Drop Impact Velocities. <i>Langmuir</i> , <b>2021</b> , 37, 13512-13526		
17	Lipid flip-flop and desorption from supported lipid bilayers is independent of curvature. <i>PLoS ONE</i> , <b>2020</b> , 15, e0244460	3.7	2



16	Atomistic explorations of mechanisms dictating the shear thinning behavior and 3D printability of graphene flake infused epoxy inks. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 24634-24645	3.6	2
15	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> , <b>2020</b> , 1, 100246	6.1	2
14	Coarse-grained modelling of DNA plectoneme pinning in the presence of base-pair mismatches. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 10713-10725	20.1	2
13	Thermo-osmotic transport in nanochannels grafted with pH-responsive polyelectrolyte brushes modelled using augmented strong stretching theory. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 917,	3.7	2
12	Non-monotonic dependence of fluid dissipation on fluid density in fluid-coupled nanoresonators. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 251601	3.4	2
11	Wood Ionic Cable. <i>Small</i> , <b>2021</b> , 17, e2008200	11	2
10	Nanovesicles Versus Nanoparticle-Supported Lipid Bilayers: Massive Differences in Bilayer Structures and in Diffusivities of Lipid Molecules and Nanoconfined Water. <i>Langmuir</i> , <b>2019</b> , 35, 2702-2708	4	1
9	Electrostatics and Interactions of an Ionizable Silica Nanoparticle Approaching a Plasma Membrane. <i>Langmuir</i> , <b>2019</b> , 35, 4171-4181	4	1
8	Strong stretching theory for pH-responsive polyelectrolyte brushes in large salt concentrations. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13536-13553	3.6	1
7	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> , <b>2021</b> , 125, 14006-14013	3.8	1
6	Coating for preventing nonspecific adhesion mediated biofouling in salty systems: Effect of the electrostatic and van der waals interactions. <i>Electrophoresis</i> , <b>2020</b> , 41, 657-665	3.6	0
5	Fully printed resonance-free broadband conical inductors using engineered magnetic inks. <i>Additive Manufacturing</i> , <b>2021</b> , 44, 102034	6.1	0
4	Physically Soft Magnetic Films and Devices: Fabrication, Properties, Printability, and Applications. <i>Journal of Materials Chemistry C</i> ,	7.1	0
3	Analytical solutions for nonionic and ionic diffusio-osmotic transport at soft and porous interfaces. <i>Physics of Fluids</i> , <b>2022</b> , 34, 022102	4.4	
2	Role of the Shuttleworth effect in adhesion on elastic surfaces. <i>MRS Advances</i> , <b>2016</b> , 1, 621-630	0.7	
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	