

Parth Rakesh Desai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Densely Grafted Polyelectrolyte Brushes Trigger “Water-in-Salt”-like Scenarios and Ultraconfinement Effect. <i>Matter</i> , 2020, 2, 1509-1521.	10.0	19
2	Coarse-grained modelling of DNA plectoneme pinning in the presence of base-pair mismatches. <i>Nucleic Acids Research</i> , 2020, 48, 10713-10725.	14.5	15
3	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.	14.6	15
4	Compression of polymer brushes in the weak interpenetration regime: scaling theory and molecular dynamics simulations. <i>Soft Matter</i> , 2017, 13, 4159-4166.	2.7	13
5	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, .	3.3	12
6	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.	13.7	11
7	Wetting Dynamics on Solvophilic, Soft, Porous, and Responsive Surfaces. <i>Macromolecules</i> , 2021, 54, 584-596.	4.8	11
8	Polyelectrolyte brush bilayers in weak interpenetration regime: Scaling theory and molecular dynamics simulations. <i>Physical Review E</i> , 2018, 97, 032503.	2.1	10
9	Formation and Properties of a Self-Assembled Nanoparticle-Supported Lipid Bilayer Probed through Molecular Dynamics Simulations. <i>Langmuir</i> , 2020, 36, 5524-5533.	3.5	8
10	Lipid flip-flop and desorption from supported lipid bilayers is independent of curvature. <i>PLoS ONE</i> , 2020, 15, e0244460.	2.5	8
11	Supersolvophobic Soft Wetting: Nanoscale Elastocapillarity, Adhesion, and Retention of a Drop Behaving as a Nanoparticle. <i>Matter</i> , 2019, 1, 1262-1273.	10.0	7
12	Water–Holey-Graphene Interactions: Route to Highly Enhanced Water-Accessible Graphene Surface Area. <i>ACS Applied Nano Materials</i> , 2018, 1, 5907-5919.	5.0	6
13	Lubrication in polymer-brush bilayers in the weak interpenetration regime: Molecular dynamics simulations and scaling theories. <i>Physical Review E</i> , 2018, 98, 022503.	2.1	6
14	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.	3.1	6
15	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.	3.5	1