Ayantika Sett

List of Publications by Year
in descending order

25	345	933447 10	839539 18
papers	citations	h-index	g-index

25	25	25	511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electroosmosis of Viscoelastic Fluids: Role of Wall Depletion Layer. Langmuir, 2017, 33, 12046-12055.	3.5	35
2	Inhibition of Human Serum Albumin Fibrillation by Two-Dimensional Nanoparticles. Journal of Physical Chemistry B, 2017, 121, 5474-5482.	2.6	34
3	Inhibition of fibrillation of human serum albumin through interaction with chitosan-based biocompatible silver nanoparticles. RSC Advances, 2016, 6, 43104-43115.	3.6	32
4	Molecular Dynamics Study of Thermally Augmented Nanodroplet Motion on Chemical Energy Induced Wettability Gradient Surfaces. Langmuir, 2015, 31, 11260-11268.	3.5	31
5	Thermally enhanced self-propelled droplet motion on gradient surfaces. RSC Advances, 2015, 5, 45266-45275.	3.6	30
6	Electrically modulated dynamic spreading of drops on soft surfaces. Applied Physics Letters, 2015, 107, 034101.	3.3	21
7	Hydrophobic tail length plays a pivotal role in amyloid beta (25-35) fibril-surfactant interactions. Proteins: Structure, Function and Bioinformatics, 2016, 84, 1213-1223.	2.6	20
8	Experimental Investigation of Evaporation and Condensation in the Contact Line Region of a Thin Liquid Film Experiencing Small Thermal Perturbations. Langmuir, 2007, 23, 1234-1241.	3.5	17
9	Anisotropic Electrowetting on Wrinkled Surfaces: Enhanced Wetting and Dependency on Initial Wetting State. Langmuir, 2018, 34, 1844-1854.	3.5	16
10	Interfacial energy driven distinctive pattern formation during the drying of blood droplets. Journal of Colloid and Interface Science, 2020, 573, 307-316.	9.4	13
11	Hydropathy: the controlling factor behind the inhibition of AÎ² fibrillation by graphene oxide. RSC Advances, 2016, 6, 103242-103252.	3.6	12
12	Droplet transport through dielectrophoretic actuation using line electrode. Microfluidics and Nanofluidics, 2014, 16, 597-603.	2.2	10
13	Electrowetting of sessile drops on soft dielectric elastomer films. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
14	Electrowetting of evaporating extended meniscus. Soft Matter, 2012, 8, 11302.	2.7	8
15	Interfacial force-driven pattern formation during drying of AÎ² (25â€“35) fibrils. International Journal of Biological Macromolecules, 2015, 79, 344-352.	7.5	8
16	Experimental and Theoretical Evaluation of On-Chip Micro Heat Pipe. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 75-93.	2.6	8
17	Fibrillar disruption by AC electric field induced oscillation: A case study with human serum albumin. Biophysical Chemistry, 2017, 226, 23-33.	2.8	8
18	Evaporation mediated translation and encapsulation of an aqueous droplet atop a viscoelastic liquid film. Journal of Colloid and Interface Science, 2021, 581, 334-349.	9.4	7

#	Article	IF	Citations
19	Temperature-gradient-induced massive augmentation of solute dispersion in viscoelasticÂmicro-flows. Journal of Fluid Mechanics, 2020, 897, .	3.4	6
20	Thermally activated control of microfluidic friction. Applied Physics Letters, 2012, 101, 134101.	3.3	4
21	Capillary driven flow in wettability altered microchannel. AICHE Journal, 2017, 63, 4616-4627.	3.6	4
22	Molecular Investigation of the Actuation of Electrowetted Nanodroplets. Langmuir, 2022, 38, 3656-3665.	3.5	4
23	Electrodewetting and Wetting of an Extended Meniscus. Langmuir, 2018, 34, 9897-9906.	3.5	3
24	Effect of air sparging on flux enhancement during tangential flow filtration of degreasing effluent. Desalination and Water Treatment, 2015, 53, 73-83.	1.0	2
25	Electro-osmosis Aided Thin-Film Evaporation from a Micropillar Wick Structure. Langmuir, 2022, 38, 8442-8455.	3.5	2