

Ranabir Dey

List of Publications by Year in descending order

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papers

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656
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillatory rheotaxis of artificial swimmers in microchannels. Nature Communications, 2022, 13, .	12.8	13
2	Emergence of Bimodal Motility in Active Droplets. Physical Review X, 2021, 11, .	8.9	26
3	Electrowettingâ€Controlled Dropwise Condensation with Patterned Electrodes: Physical Principles, Modeling, and Application Perspectives. Advanced Materials Interfaces, 2021, 8, 2001317.	3.7	10
4	Electrically Controlled Localized Charge Trapping at Amorphous Fluoropolymerâ€Electrolyte Interfaces. Small, 2020, 16, e1905726.	10.0	41
5	Soft electrowetting. Soft Matter, 2019, 15, 6469-6475.	2.7	12
6	Behaviour of flexible superhydrophobic striped surfaces during (electro-)wetting of a sessile drop. Soft Matter, 2019, 15, 9840-9848.	2.7	9
7	Controlling shedding characteristics of condensate drops using electrowetting. Applied Physics Letters, 2018, 113, .	3.3	27
8	Breath Figures under Electrowetting: Electrically Controlled Evolution of Drop Condensation Patterns. Physical Review Letters, 2018, 120, 214502.	7.8	45
9	Electrowetting of sessile drops on soft dielectric elastomer films. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
10	Mixing characteristics in microchannels with biomimetic superhydrophobic (Lotus leaf replica) walls. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	15
11	Electrically modulated dynamic spreading of drops on soft surfaces. Applied Physics Letters, 2015, 107, 034101.	3.3	21
12	Ultra-low-cost â€paper-and-pencilâ€™ device for electrically controlled micromixing of analytes. Microfluidics and Nanofluidics, 2015, 19, 375-383.	2.2	52
13	AC Electric Field-Induced Trapping of Microparticles in Pinched Microconfinements. Langmuir, 2015, 31, 5952-5961.	3.5	9
14	Dynamics of Electrically Modulated Colloidal Droplet Transport. Langmuir, 2015, 31, 11269-11278.	3.5	19
15	Tunable hydrodynamic characteristics in microchannels with biomimetic superhydrophobic (lotus) Tj ETQq1 1 0.784314 rgBT/Overload	2.7	39
16	Thermal characteristics of electromagnetohydrodynamic flows in narrow channels with viscous dissipation and Joule heating under constant wall heat flux. International Journal of Heat and Mass Transfer, 2013, 67, 1151-1162.	4.8	113
17	Steric-effect-induced alteration of thermal transport phenomenon for mixed electroosmotic and pressure driven flows through narrow confinements. International Journal of Heat and Mass Transfer, 2013, 56, 251-262.	4.8	35
18	Thermal Characteristics of Streaming Potential Mediated Flows of Non-Newtonian Fluids with Asymmetric Boundary Conditions and Steric Effect. International Journal of Micro-nano Scale Transport, 2013, 4, 147-158.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Electrohydrodynamics within the electrical double layer in the presence of finite temperature gradients. <i>Physical Review E</i> , 2013, 88, 053020.	2.1	26
20	Thermally activated control of microfluidic friction. <i>Applied Physics Letters</i> , 2012, 101, 134101.	3.3	4
21	Frictional and Heat Transfer Characteristics of Single-Phase Microchannel Liquid Flows. <i>Heat Transfer Engineering</i> , 2012, 33, 425-446.	1.9	19
22	Electrokinetics with "paper-and-pencil" devices. <i>Lab on A Chip</i> , 2012, 12, 4026.	6.0	66
23	Extended Graetz problem for combined electroosmotic and pressure-driven flows in narrow confinements with thick electric double layers. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4724-4733.	4.8	26
24	Analytical Solution for Thermally Fully Developed Combined Electroosmotic and Pressure-Driven Flows in Narrow Confinements With Thick Electrical Double Layers. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	65