Ranabir Dey

List of Publications by Year
in descending order

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24	702	567281 15	642732 23
papers	citations	h-index	g-index

24	24	24	656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Electrokinetics with â€œpaper-and-pencilâ€•devices. Lab on A Chip, 2012, 12, 4026.	6.0	66
3	Analytical Solution for Thermally Fully Developed Combined Electroosmotic and Pressure-Driven Flows in Narrow Confinements With Thick Electrical Double Layers. Journal of Heat Transfer, 2011, 133, .	2.1	65
4	Ultra-low-cost â€˜paper-and-pencilâ€™ device for electrically controlled micromixing of analytes. Microfluidics and Nanofluidics, 2015, 19, 375-383.	2.2	52
5	Breath Figures under Electrowetting: Electrically Controlled Evolution of Drop Condensation Patterns. Physical Review Letters, 2018, 120, 214502.	7.8	45
6	Electrically Controlled Localized Charge Trapping at Amorphous Fluoropolymerâ€“Electrolyte Interfaces. Small, 2020, 16, e1905726.	10.0	41
7	Tunable hydrodynamic characteristics in microchannels with biomimetic superhydrophobic (lotus) Tj ETQq1 1 0.784314 rgBT /Overlock	2.7	39
8	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
9	Controlling shedding characteristics of condensate drops using electrowetting. Applied Physics Letters, 2018, 113, .	3.3	27
10	Extended Graetz problem for combined electroosmotic and pressure-driven flows in narrow confinements with thick electric double layers. International Journal of Heat and Mass Transfer, 2012, 55, 4724-4733.	4.8	26
11	Electrohydrodynamics within the electrical double layer in the presence of finite temperature gradients. Physical Review E, 2013, 88, 053020.	2.1	26
12	Emergence of Bimodal Motility in Active Droplets. Physical Review X, 2021, 11, .	8.9	26
13	Electrically modulated dynamic spreading of drops on soft surfaces. Applied Physics Letters, 2015, 107, 034101.	3.3	21
14	Frictional and Heat Transfer Characteristics of Single-Phase Microchannel Liquid Flows. Heat Transfer Engineering, 2012, 33, 425-446.	1.9	19
15	Dynamics of Electrically Modulated Colloidal Droplet Transport. Langmuir, 2015, 31, 11269-11278.	3.5	19
16	Mixing characteristics in microchannels with biomimetic superhydrophobic (Lotus leaf replica) walls. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	15
17	Oscillatory rheotaxis of artificial swimmers in microchannels. Nature Communications, 2022, 13, .	12.8	13
18	Soft electrowetting. Soft Matter, 2019, 15, 6469-6475.	2.7	12

#	Article	IF	Citations
19	Electrowetting of sessile drops on soft dielectric elastomer films. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
20	Electrowettingâ€Controlled Dropwise Condensation with Patterned Electrodes: Physical Principles, Modeling, and Application Perspectives. Advanced Materials Interfaces, 2021, 8, 2001317.	3.7	10
21	AC Electric Field-Induced Trapping of Microparticles in Pinched Microconfinements. Langmuir, 2015, 31, 5952-5961.	3.5	9
22	Behaviour of flexible superhydrophobic striped surfaces during (electro-)wetting of a sessile drop. Soft Matter, 2019, 15, 9840-9848.	2.7	9
23	Thermally activated control of microfluidic friction. Applied Physics Letters, 2012, 101, 134101.	3.3	4
24	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