

Arup Kumar Das

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

336
citations

9
h-index

15
g-index

74
ext. papers

504
ext. citations

3.5
avg, IF

4.31
L-index

#	Paper	IF	Citations
61	Numerical study of interfacial dynamics in flow boiling of R134a inside smooth and structured tubes. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 188, 122592	4.9	0
60	Numerical study of boiling of liquid nitrogen at solid and liquid contact planes. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122075	4.9	1
59	Bubble dynamics in concentric multi-orifice column under normal and reduced gravity. <i>Physics of Fluids</i> , 2022 , 34, 042113	4.4	0
58	Effect of left ventricular assist device on the hemodynamics of a patient-specific left heart.. <i>Medical and Biological Engineering and Computing</i> , 2022 , 60, 1705	3.1	
57	Hybrid microfluidic design for separation of neutrally-buoyant and non-buoyant particles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 108721	3.7	
56	Comparative assessment of different versions of axial and centrifugal LVADs: A review. <i>Artificial Organs</i> , 2021 , 45, 665-681	2.6	3
55	Dynamics of inner gas during the bursting of a bubble at the free surface. <i>Physics of Fluids</i> , 2021 , 33, 052105	4.4	3
54	Design of two-stage branching for inertial separation of particulate mixture. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1	2.8	
53	Simulation of Blood as Fluid: A Review From Rheological Aspects. <i>IEEE Reviews in Biomedical Engineering</i> , 2021 , 14, 327-341	6.4	4
52	Understanding interfacial behaviour during boiling of nitrogen from liquid-liquid contact plane. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 165, 120661	4.9	3
51	Electric Charge-Induced Active Control of Nucleate and Rapid Film Boiling at the Nanoscale: a Molecular Perspective. <i>Langmuir</i> , 2021 , 37, 10006-10019	4	0
50	Fluidics in an emptying bottle during breaking and making of interacting interfaces. <i>Physics of Fluids</i> , 2020 , 32, 042102	4.4	3
49	Proposal of hemodynamically improved design of an axial flow blood pump for LVAD. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 401-418	3.1	6
48	Numerical Inspection of Heterogeneity in Materials using 2D Heat-Conduction and Hybrid GA-tuned Neural-Network. <i>Applied Artificial Intelligence</i> , 2020 , 34, 125-154	2.3	0
47	Development of microfluidic chip for dilation of slurry. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	2
46	Evolution of Multiphase Lattice Boltzmann Method: A Review. <i>Journal of the Institution of Engineers (India): Series C</i> , 2020 , 101, 711-719	0.9	7
45	Modeling interaction between a Taylor bubble and small bubble in a rectangular column. <i>Physics of Fluids</i> , 2020 , 32, 112106	4.4	3

44	Passage of a Liquid Taylor Drop through Successive Bends in a Rectangular Channel. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19045-19061	3.9	
43	Passage of a Taylor Bubble through a Stratified Liquid-Liquid Interface. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3757-3771	3.9	1
42	Numerical simulation of centrifugal and hemodynamically levitated LVAD for performance improvement. <i>Artificial Organs</i> , 2020 , 44, E1-E19	2.6	7
41	Numerical Understanding of Free Surface Vortex Driven by Rotational Field Inside Viscous Liquid. <i>Heat Transfer Engineering</i> , 2020 , 41, 1382-1396	1.7	3
40	Experimental Study on the Interfacial Evolution of Taylor Bubble at Inception of an Annulus. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2356-2369	3.9	4
39	Consequences of Inclined and Dual Jet Impingement in Stagnant Liquid and Stratified Layers. <i>AIChE Journal</i> , 2019 , 65, 372-384	3.6	
38	Study of Electric Field-Induced Evaporation Like Process and Nucleation in Nanoscale. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	3
37	Manipulation of Droplets by Electrostatic Actuation and the Related Hydrodynamics. <i>Journal of the Indian Institute of Science</i> , 2019 , 99, 121-141	2.4	1
36	Numerical investigation of the collapse of a static bubble at the free surface in the presence of neighbors. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	7
35	Investigation of droplet coalescence propelled by dielectrophoresis. <i>AIChE Journal</i> , 2019 , 65, 829-839	3.6	7
34	Numerical study of boiling around wires and influence of active or passive neighbours on vapour film dynamics. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 440-454	4.9	9
33	Effect of Surface Tension Variation of the Working Fluid on the Performance of a Closed Loop Pulsating Heat Pipe. <i>Heat Transfer Engineering</i> , 2019 , 40, 509-523	1.7	7
32	Proposition of an optical arrangement for interface reconstruction between stratified liquids. <i>Chemical Engineering Science</i> , 2018 , 183, 75-85	4.4	1
31	Numerical assessment of hazard in compartmental fire having steady heat release rate from the source. <i>Building Simulation</i> , 2018 , 11, 613-624	3.9	2
30	Vortex Formation and Subsequent Air Entrainment inside a Liquid Pool. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6538-6552	3.9	5
29	Computational simulation of radially asymmetric hydraulic jumps and jump-jump interactions. <i>Computers and Fluids</i> , 2018 , 170, 1-12	2.8	9
28	Understanding of Interactions for Bubbles Generated at Neighboring Nucleation Sites. <i>Heat Transfer Engineering</i> , 2018 , 39, 885-900	1.7	4
27	Interface evolution of a liquid Taylor droplet during passage through a sudden contraction in a rectangular channel. <i>Chemical Engineering Science</i> , 2018 , 192, 993-1010	4.4	4

26	Dynamics of jets produced by bursting bubbles. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	57
25	Levitation of non-magnetizable droplet inside ferrofluid. <i>Journal of Fluid Mechanics</i> , 2018 , 857, 398-448	3.7	6
24	Understanding of Fluidic Physics during Bypass of a Taylor Bubble around a Transverse Insert in a Viscous Medium. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13539-13556	3.9	3
23	Formation of fluid structures due to jet-jet and jet-sheet interactions. <i>Chemical Engineering Science</i> , 2018 , 191, 67-77	4.4	3
22	Towards the understanding of bubble-bubble interaction upon formation at submerged orifices: A numerical approach. <i>Chemical Engineering Science</i> , 2017 , 161, 316-328	4.4	11
21	Interaction of Asymmetric Films Around Boiling Cylinder Array: Homogeneous Interface to Chaotic Phenomenon. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	1
20	Study of interaction pattern between bubbles at three inline orifices in a submerged pool. <i>Chemical Engineering Science</i> , 2017 , 168, 41-54	4.4	8
19	On air entrainment in a water pool by impingement of a jet. <i>AIChE Journal</i> , 2017 , 63, 5169-5181	3.6	4
18	Bending and growth of entrained air filament under converging and asymmetric rotational fields. <i>Physics of Fluids</i> , 2017 , 29, 022101	4.4	11
17	Air entrainment driven by a converging rotational field in a viscous liquid. <i>Physics of Fluids</i> , 2017 , 29, 102104	4.4	7
16	Control of Drop Impact and Proposal of Pseudo-superhydrophobicity Using Electrostatics. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 11312-11319	3.9	8
15	Formation of liquid chain by collision of two laminar jets. <i>Physics of Fluids</i> , 2017 , 29, 112101	4.4	7
14	Proposition of stair climb of a drop using chemical wettability gradient. <i>Physics of Fluids</i> , 2017 , 29, 072103	4.4	4
13	On Transformation of a Taylor Bubble to an Asymmetric Sectorial Wrap in an Annuli. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14384-14395	3.9	4
12	Effect of electrostatic incitation on the wetting mode of a nano-drop over a pillar-arrayed surface. <i>RSC Advances</i> , 2016 , 6, 110127-110133	3.7	9
11	Flow restrictive and shear reducing effect of magnetization relaxation in ferrofluid cavity flow. <i>Physics of Fluids</i> , 2016 , 28, 087103	4.4	5
10	Asymmetric bursting of Taylor bubble in inclined tubes. <i>Physics of Fluids</i> , 2016 , 28, 082106	4.4	5
9	Physical understanding of gas-liquid annular flow and its transition to dispersed droplets. <i>Physics of Fluids</i> , 2016 , 28, 072101	4.4	18

8	Single-mode instability of a ferrofluid-mercury interface under a nonuniform magnetic field. <i>Physical Review E</i> , 2016 , 94, 012803	2.4	1
7	Unravelling Electrostatic Actuation on Inclined and Humped Surfaces: Effect of Substrate Contact Angle. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3949-3959	3.9	4
6	Coalescence of sessile microdroplets subject to a wettability gradient on a solid surface. <i>Physical Review E</i> , 2016 , 94, 033112	2.4	9
5	Modeling of liquid-vapor phase change using smoothed particle hydrodynamics. <i>Journal of Computational Physics</i> , 2015 , 303, 125-145	4.1	11
4	Mechanism of Bursting Taylor Bubbles at Free Surfaces. <i>Langmuir</i> , 2015 , 31, 9870-81	4	10
3	Study of the Dynamics of a Condensing Bubble Using Lattice Boltzmann Method. <i>Journal of Computational Multiphase Flows</i> , 2015 , 7, 117-127		
2	Numerical Study of Dynamics of Bubbles Using Lattice Boltzmann Method. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 6364-6376	3.9	7
1	3-D Lattice Boltzmann Model for Asymmetric Taylor Bubble and Taylor Drop in Inclined Channel. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012 , 6, 383-394	4.5	11