

Ranga Narayanan

List of Publications by Year in descending order

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35
papers

216
citations

932766

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39
all docs

39
docs citations

39
times ranked

143
citing authors

#	ARTICLE	IF	CITATIONS
1	Comments on the numerical investigation of Rayleigh and Marangoni convection in a vertical circular cylinder. <i>Physics of Fluids</i> , 1994, 6, 1425-1433.	1.6	29
2	Experimental observation of dynamic mode switching in interfacial-tension-driven convection near a codimension-two point. <i>Physical Review E</i> , 1996, 54, R3102-R3104.	0.8	28
3	Interfacial and Buoyancy-Driven Convection—The Effect of Geometry and Comparison with Experiments. <i>Journal of Colloid and Interface Science</i> , 1996, 179, 151-162.	5.0	21
4	Numerical simulations of periodic flow oscillations in low Prandtl number fluids. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 427-438.	2.5	20
5	The electrostatically forced Faraday instability: theory and experiments. <i>Journal of Fluid Mechanics</i> , 2019, 862, 696-731.	1.4	18
6	Mixing generated by Faraday instability between miscible liquids. <i>Physical Review E</i> , 2012, 85, 016326.	0.8	14
7	Faraday instability in double-interface fluid layers. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	14
8	Electrowetting of a leaky dielectric droplet under a time-periodic electric field. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	12
9	The Faraday instability in miscible fluid systems. <i>Physics of Fluids</i> , 2015, 27, .	1.6	11
10	Onset of Rayleigh–Marangoni convection in a cylindrical annulus heated from below. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 727-732.	5.0	10
11	Oscillation phase relations in a Bridgman system. <i>Journal of Crystal Growth</i> , 1991, 109, 127-132.	0.7	7
12	Influence of capillarity and gravity on confined Faraday waves. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	7
13	The growth of roughness during electrodeposition. <i>Electrochimica Acta</i> , 2006, 51, 2881-2889.	2.6	5
14	Benchmarking surface tension measurement method using two oscillation modes in levitated liquid metals. <i>Npj Microgravity</i> , 2021, 7, 10.	1.9	5
15	From steady to unsteady horizontal gradient-driven convection at high Prandtl number. <i>International Journal of Heat and Mass Transfer</i> , 2014, 71, 469-474.	2.5	4
16	Faraday forcing of high-temperature levitated liquid metal drops for the measurement of surface tension. <i>Npj Microgravity</i> , 2018, 4, 10.	1.9	4
17	Static stability of pendent drops pinned to arbitrary closed curves. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	2
18	Stability of a static liquid bridge knowing only its shape. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	2

#	ARTICLE	IF	CITATIONS
19	Unsteady convection in tin in a Bridgman configuration. <i>Journal of Crystal Growth</i> , 1991, 110, 348-352.	0.7	1
20	The Faraday instability in rectangular and annular geometries: comparison of experiments with theory. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	1
21	Isolation of competing morphological patterns during microfluidic electrodeposition: Experimental confirmation of theory. <i>Electrochimica Acta</i> , 2021, 398, 139205.	2.6	1
22	<title>Novel method to detect flow profiles in liquid metals in a Bridgman configuration</title>., 1997, 3123, 201.		0
23	Periodic oscillations of low Prandtl-number fluids in rectangular enclosures. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
24	Introduction: 24th Annual Gallery of Fluid Motion (Tampa, Florida, 2006). <i>Physics of Fluids</i> , 2007, 19, 091101.	1.6	0
25	Growth Constants in Solidification. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5087-5091.	1.8	0
26	CRITICAL POINTS IN THE SOLIDIFICATION OF A PURE MATERIAL. <i>Chemical Engineering Communications</i> , 2008, 195, 834-845.	1.5	0
27	Stabilizing the Interface in the Rayleighâ€“Taylor and the Saffmanâ€“Taylor Problems by Heating. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13250-13257.	1.8	0
28	Can an adverse density difference across a surface be stabilized by heating from above?. <i>Journal of Colloid and Interface Science</i> , 2015, 449, 327-331.	5.0	0
29	Preface for the Interfacial Transport Phenomena Collection dedicated to Professor Paul Steen. <i>Npj Microgravity</i> , 2021, 7, 39.	1.9	0
30	The Physics and Analyses of Interfacial Instabilities that Arise from Phase Change. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010, , 255-304.	0.3	0
31	2D Closed Flow Problems: The Driven Cavity. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 113-169.	2.0	0
32	An Introduction to the Spectral Method. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 3-20.	2.0	0
33	An Introduction to the Book and a Road Map. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 1-2.	2.0	0
34	Steady One-Dimensional (1D) Heat Conduction Problems. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 21-60.	2.0	0
35	Steady Two-Dimensional (2D) Heat Conduction Problems. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 75-111.	2.0	0