Ranga Narayanan

List of Publications by Year
in descending order

35	216	932766	996533
papers	citations	10 h-index	15 g-index

39	39	39	143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Benchmarking surface tension measurement method using two oscillation modes in levitated liquid metals. Npj Microgravity, 2021, 7, 10.	1.9	5
2	Electrowetting of a leaky dielectric droplet under a time-periodic electric field. Physical Review Fluids, 2021, 6, .	1.0	12
3	Isolation of competing morphological patterns during microfluidic electrodeposition: Experimental confirmation of theory. Electrochimica Acta, 2021, 398, 139205.	2.6	1
4	Preface for the Interfacial Transport Phenomena Collection dedicated to Professor Paul Steen. Npj Microgravity, 2021, 7, 39.	1.9	0
5	The Faraday instability in rectangular and annular geometries: comparison of experiments with theory. Experiments in Fluids, 2019, 60, 1.	1.1	1
6	The electrostatically forced Faraday instability: theory and experiments. Journal of Fluid Mechanics, 2019, 862, 696-731.	1.4	18
7	Faraday instability in double-interface fluid layers. Physical Review Fluids, 2019, 4, .	1.0	14
8	Stability of a static liquid bridge knowing only its shape. Physical Review Fluids, 2019, 4, .	1.0	2
9	Faraday forcing of high-temperature levitated liquid metal drops for the measurement of surface tension. Npj Microgravity, 2018, 4, 10.	1.9	4
10	Influence of capillarity and gravity on confined Faraday waves. Physical Review Fluids, 2018, 3, .	1.0	7
11	Static stability of pendent drops pinned to arbitrary closed curves. Physical Review Fluids, 2017, 2, .	1.0	2
12	The Faraday instability in miscible fluid systems. Physics of Fluids, 2015, 27, .	1.6	11
13	Can an adverse density difference across a surface be stabilized by heating from above?. Journal of Colloid and Interface Science, 2015, 449, 327-331.	5.0	0
14	From steady to unsteady horizontal gradient-driven convection at high Prandtl number. International Journal of Heat and Mass Transfer, 2014, 71, 469-474.	2.5	4
15	Mixing generated by Faraday instability between miscible liquids. Physical Review E, 2012, 85, 016326.	0.8	14
16	2D Closed Flow Problems: The Driven Cavity. Lecture Notes in Applied and Computational Mechanics, 2012, , 113-169.	2.0	0
17	An Introduction to the Spectral Method. Lecture Notes in Applied and Computational Mechanics, 2012, , 3-20.	2.0	0
18	An Introduction to the Book and a Road Map. Lecture Notes in Applied and Computational Mechanics, 2012, , 1-2.	2.0	0

#	Article	IF	Citations
19	Steady One-Dimensional (1D) Heat Conduction Problems. Lecture Notes in Applied and Computational Mechanics, 2012, , 21-60.	2.0	0
20	Steady Two-Dimensional (2D) Heat Conduction Problems. Lecture Notes in Applied and Computational Mechanics, 2012, , 75-111.	2.0	0
21	Stabilizing the Interface in the Rayleighâ€“Taylor and the Saffmanâ€“Taylor Problems by Heating. Industrial & Engineering Chemistry Research, 2011, 50, 13250-13257.	1.8	0
22	The Physics and Analyses of Interfacial Instabilities that Arise from Phase Change. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2010, , 255-304.	0.3	0
23	Growth Constants in Solidification. Industrial & Engineering Chemistry Research, 2008, 47, 5087-5091.	1.8	0
24	CRITICAL POINTS IN THE SOLIDIFICATION OF A PURE MATERIAL. Chemical Engineering Communications, 2008, 195, 834-845.	1.5	0
25	Introduction: 24th Annual Gallery of Fluid Motion (Tampa, Florida, 2006). Physics of Fluids, 2007, 19, 091101.	1.6	0
26	Onset of Rayleighâ€“Marangoni convection in a cylindrical annulus heated from below. Journal of Colloid and Interface Science, 2007, 314, 727-732.	5.0	10
27	The growth of roughness during electrodeposition. Electrochimica Acta, 2006, 51, 2881-2889.	2.6	5
28	Numerical simulations of periodic flow oscillations in low Prandtl number fluids. International Journal of Heat and Mass Transfer, 2006, 49, 427-438.	2.5	20
29	Periodic oscillations of low Prandtl-number fluids in rectangular enclosures. AIP Conference Proceedings, 2000, , .	0.3	0
30	‹title›Novel method to detect flow profiles in liquid metals in a Bridgman configuration‹/title›. , 1997, 3123, 201.		0
31	Interfacial and Buoyancy-Driven Convectionâ€”The Effect of Geometry and Comparison with Experiments. Journal of Colloid and Interface Science, 1996, 179, 151-162.	5.0	21
32	Experimental observation of dynamic mode switching in interfacial-tension-driven convection near a codimension-two point. Physical Review E, 1996, 54, R3102-R3104.	0.8	28
33	Comments on the numerical investigation of Rayleigh and Marangoni convection in a vertical circular cylinder. Physics of Fluids, 1994, 6, 1425-1433.	1.6	29
34	Oscillation phase relations in a Bridgman system. Journal of Crystal Growth, 1991, 109, 127-132.	0.7	7
35	Unsteady convection in tin in a Bridgman configuration. Journal of Crystal Growth, 1991, 110, 348-352.	0.7	1