

Hao-Ran Liu

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

467
citations

687363

13
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

376
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer in turbulent Rayleigh-Bénard convection through two immiscible fluid layers. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	3.4	13
2	Buoyancy-driven bubbles in a constricted vertical capillary. <i>Physics of Fluids</i> , 2022, 34, .	4.0	6
3	Enhancing heat transport in multiphase Rayleigh-Bénard turbulence by changing the plate-liquid contact angles. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	10
4	Two-layer thermally driven turbulence: mechanisms for interface breakup. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	15
5	Motion of self-rewetting drop on a substrate with a constant temperature gradient. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	3.4	8
6	Regime transitions in thermally driven high-Rayleigh number vertical convection. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	3.4	19
7	Early stage of delayed coalescence of soluble paired droplets: A numerical study. <i>Physics of Fluids</i> , 2021, 33, .	4.0	7
8	An efficient phase-field method for turbulent multiphase flows. <i>Journal of Computational Physics</i> , 2021, 446, 110659.	3.8	25
9	Submersion of impacting spheres at low Bond and Weber numbers owing to a confined pool. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	3.4	9
10	A fully 3D simulation of fluid-structure interaction with dynamic wetting and contact angle hysteresis. <i>Journal of Computational Physics</i> , 2020, 420, 109709.	3.8	27
11	Head-on collision of two immiscible droplets of different components. <i>Physics of Fluids</i> , 2020, 32, .	4.0	14
12	Origin of Batch Hydrothermal Fluid Behavior and Its Influence on Nanomaterial Synthesis. <i>Matter</i> , 2020, 2, 1270-1282.	10.0	31
13	Entrapping an impacting particle at a liquid-gas interface. <i>Journal of Fluid Mechanics</i> , 2018, 841, 1073-1084.	3.4	24
14	On the maximal spreading of impacting compound drops. <i>Journal of Fluid Mechanics</i> , 2018, 854, .	3.4	42
15	Dynamics of viscoelastic drops impacting onto a hydrophobic solid substrate. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 094705.	0.4	3
16	Simulation of flows with moving contact lines on a dual-resolution Cartesian grid using a diffuse-interface immersed-boundary method. <i>Journal of Hydrodynamics</i> , 2017, 29, 774-781.	3.2	4
17	Fluid-structure interaction involving dynamic wetting: 2D modeling and simulations. <i>Journal of Computational Physics</i> , 2017, 348, 45-65.	3.8	45
18	Dynamics of drop impact onto a solid sphere: spreading and retraction. <i>Journal of Fluid Mechanics</i> , 2017, 824, .	3.4	51

#	ARTICLE	IF	CITATIONS
19	Simulation of incompressible multiphase flows with complex geometry using etching multiblock method. Applied Mathematics and Mechanics (English Edition), 2016, 37, 1405-1418.	3.6	6
20	On the contact-line pinning in cavity formation during solid-liquid impact. Journal of Fluid Mechanics, 2015, 783, 504-525.	3.4	39
21	A diffuse-interface immersed-boundary method for two-dimensional simulation of flows with moving contact lines on curved substrates. Journal of Computational Physics, 2015, 294, 484-502.	3.8	69