

Hao-Ran Liu

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

467
citations

687363

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713466

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all docs

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docs citations

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times ranked

376
citing authors

#	ARTICLE	IF	CITATIONS
1	A diffuse-interface immersed-boundary method for two-dimensional simulation of flows with moving contact lines on curved substrates. <i>Journal of Computational Physics</i> , 2015, 294, 484-502.	3.8	69
2	Dynamics of drop impact onto a solid sphere: spreading and retraction. <i>Journal of Fluid Mechanics</i> , 2017, 824, .	3.4	51
3	Fluid-structure interaction involving dynamic wetting: 2D modeling and simulations. <i>Journal of Computational Physics</i> , 2017, 348, 45-65.	3.8	45
4	On the maximal spreading of impacting compound drops. <i>Journal of Fluid Mechanics</i> , 2018, 854, .	3.4	42
5	On the contact-line pinning in cavity formation during solid-liquid impact. <i>Journal of Fluid Mechanics</i> , 2015, 783, 504-525.	3.4	39
6	Origin of Batch Hydrothermal Fluid Behavior and Its Influence on Nanomaterial Synthesis. <i>Matter</i> , 2020, 2, 1270-1282.	10.0	31
7	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
8	An efficient phase-field method for turbulent multiphase flows. <i>Journal of Computational Physics</i> , 2021, 446, 110659.	3.8	25
9	Entrapping an impacting particle at a liquid-gas interface. <i>Journal of Fluid Mechanics</i> , 2018, 841, 1073-1084.	3.4	24
10	Regime transitions in thermally driven high-Rayleigh number vertical convection. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	3.4	19
11	Two-layer thermally driven turbulence: mechanisms for interface breakup. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	15
12	Head-on collision of two immiscible droplets of different components. <i>Physics of Fluids</i> , 2020, 32, .	4.0	14
13	Heat transfer in turbulent Rayleigh-Bénard convection through two immiscible fluid layers. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	3.4	13
14	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
15	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
16	Motion of self-wetting drop on a substrate with a constant temperature gradient. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	3.4	8
17	Early stage of delayed coalescence of soluble paired droplets: A numerical study. <i>Physics of Fluids</i> , 2021, 33, .	4.0	7
18	Simulation of incompressible multiphase flows with complex geometry using etching multiblock method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 1405-1418.	3.6	6

#	ARTICLE	IF	CITATIONS
19	Buoyancy-driven bubbles in a constricted vertical capillary. <i>Physics of Fluids</i> , 2022, 34, .	4.0	6
20	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
21	Dynamics of viscoelastic drops impacting onto a hydrophobic solid substrate. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2018, 48, 094705.	0.4	3