Yue Ling

List of Publications by Year
in descending order

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31 papers	1,020 citations	567281 15 h-index	501196 28 g-index
31 all docs	31 docs citations	31 times ranked	810 citing authors

#	Article	IF	Citations
1	A phase inversion benchmark for multiscale multiphase flows. Journal of Computational Physics, 2022, 450, 110810.	3.8	6
2	Oscillation Dynamics of Drops on Immiscible Thin Liquid Films. Langmuir, 2022, 38, 1243-1251.	3.5	3
3	Direct numerical simulation of compressible interfacial multiphase flows using a massâ€“momentumâ€“energy consistent volume-of-fluid method. Computers and Fluids, 2022, 236, 105267.	2.5	1
4	A mass-momentum consistent, Volume-of-Fluid method for incompressible flow on staggered grids. Computers and Fluids, 2021, 215, 104785.	2.5	25
5	PArallel, Robust, Interface Simulator (PARIS). Computer Physics Communications, 2021, 263, 107849.	7.5	29
6	Impact of inlet gas turbulence on the formation, development and breakup of interfacial waves in a two-phase mixing layer. Journal of Fluid Mechanics, 2021, 921, .	3.4	12
7	Numerical study of natural oscillations of supported drops with free and pinned contact lines. Physics of Fluids, 2021, 33, .	4.0	14
8	A model to predict the oscillation frequency for drops pinned on a vertical planar surface. Journal of Fluid Mechanics, 2021, 928, .	3.4	6
9	Destabilization of a planar liquid stream by a co-flowing turbulent gas stream. International Journal of Multiphase Flow, 2020, 122, 103121.	3.4	8
10	Modeling and detailed numerical simulation of the primary breakup of a gasoline surrogate jet under non-evaporative operating conditions. International Journal of Multiphase Flow, 2020, 130, 103362.	3.4	29
11	Natural oscillations of a sessile drop on flat surfaces with mobile contact lines. Physical Review Fluids, 2020, 5, .	2.5	13
12	Impact of Inlet Gas Turbulent Intensity on the Characteristics of Droplets Generated in Airblast Atomization. , 2019, , .		2
13	Non-Specific Adsorption Reduction Methods in Biosensing. Sensors, 2019, 19, 2488.	3.8	147
14	Detailed numerical simulations of pore competition in idealized micro-spall using the VOF method. Computers and Fluids, 2019, 189, 60-72.	2.5	5
15	A two-phase mixing layer between parallel gas and liquid streams: multiphase turbulence statistics and influence of interfacial instability. Journal of Fluid Mechanics, 2019, 859, 268-307.	3.4	56
16	Short-term oscillation and falling dynamics for a water drop dripping in quiescent air. Physical Review Fluids, 2019, 4, .	2.5	15
17	Simulation and scaling analysis of a spherical particle-laden blast wave. Shock Waves, 2018, 28, 545-558.	1.9	11
18	Asymptotic scaling laws and semi-similarity solutions for a finite-source spherical blast wave. Journal of Fluid Mechanics, 2018, 850, 674-707.	3.4	5

#	Article	IF	Citations
19	Spray formation in a quasiplanar gas-liquid mixing layer at moderate density ratios: A numerical closeup. Physical Review Fluids, 2017, 2, .	2.5	65
20	Droplet migration in a Heleâ€“Shaw cell: Effect of the lubrication film on the droplet dynamics. Physics of Fluids, 2016, 28, .	4.0	28
21	Inter-phase heat transfer and energy coupling in turbulent dispersed multiphase flows. Physics of Fluids, 2016, 28, .	4.0	40
22	Multiscale simulation of atomization with small droplets represented by a Lagrangian point-particle model. International Journal of Multiphase Flow, 2015, 76, 122-143.	3.4	111
23	A scaling analysis of added-mass and history forces and their coupling in dispersed multiphase flows. International Journal of Multiphase Flow, 2013, 57, 102-114.	3.4	55
24	Shock interaction with a deformable particle: Direct numerical simulation and point-particle modeling. Journal of Applied Physics, 2013, 113, .	2.5	38
25	Importance of unsteady force and heating to particle interaction with shock/detonation waves. , 2012, , .		0
26	Interaction of a planar shock wave with a dense particle curtain: Modeling and experiments. Physics of Fluids, 2012, 24, .	4.0	115
27	Importance of unsteady contributions to force and heating for particles in compressible flows. International Journal of Multiphase Flow, 2011, 37, 1026-1044.	3.4	84
28	Importance of unsteady contributions to force and heating for particles in compressible flows. Part 2: Application to particle dispersal by blast waves. International Journal of Multiphase Flow, 2011, 37, 1013-1025.	3.4	54
29	A numerical source of small-scale number-density fluctuations in Eulerianâ€“Lagrangian simulations of multiphase flows. Journal of Computational Physics, 2010, 229, 1828-1851.	3.8	11
30	Transient phenomena in one-dimensional compressible gasâ€“particle flows. Shock Waves, 2009, 19, 67-81.	1.9	29
31	Modeling and Simulation of Explosive Dispersal of Particles in a Multiphase Explosion. , 2009, , .		3