

Yue Ling

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2682374/publications.pdf>

Version: 2024-02-01

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	Non-Specific Adsorption Reduction Methods in Biosensing. <i>Sensors</i> , 2019, 19, 2488.	3.8	147
2	Interaction of a planar shock wave with a dense particle curtain: Modeling and experiments. <i>Physics of Fluids</i> , 2012, 24, .	4.0	115
3	Multiscale simulation of atomization with small droplets represented by a Lagrangian point-particle model. <i>International Journal of Multiphase Flow</i> , 2015, 76, 122-143.	3.4	111
4	Importance of unsteady contributions to force and heating for particles in compressible flows. <i>International Journal of Multiphase Flow</i> , 2011, 37, 1026-1044.	3.4	84
5	Spray formation in a quasiplanar gas-liquid mixing layer at moderate density ratios: A numerical closeup. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	65
6	A two-phase mixing layer between parallel gas and liquid streams: multiphase turbulence statistics and influence of interfacial instability. <i>Journal of Fluid Mechanics</i> , 2019, 859, 268-307.	3.4	56
7	A scaling analysis of added-mass and history forces and their coupling in dispersed multiphase flows. <i>International Journal of Multiphase Flow</i> , 2013, 57, 102-114.	3.4	55
8	Importance of unsteady contributions to force and heating for particles in compressible flows. Part 2: Application to particle dispersal by blast waves. <i>International Journal of Multiphase Flow</i> , 2011, 37, 1013-1025.	3.4	54
9	Inter-phase heat transfer and energy coupling in turbulent dispersed multiphase flows. <i>Physics of Fluids</i> , 2016, 28, .	4.0	40
10	Shock interaction with a deformable particle: Direct numerical simulation and point-particle modeling. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	38
11	Transient phenomena in one-dimensional compressible gas-particle flows. <i>Shock Waves</i> , 2009, 19, 67-81.	1.9	29
12	Modeling and detailed numerical simulation of the primary breakup of a gasoline surrogate jet under non-evaporative operating conditions. <i>International Journal of Multiphase Flow</i> , 2020, 130, 103362.	3.4	29
13	PARallel, Robust, Interface Simulator (PARIS). <i>Computer Physics Communications</i> , 2021, 263, 107849.	7.5	29
14	Droplet migration in a Hele-Shaw cell: Effect of the lubrication film on the droplet dynamics. <i>Physics of Fluids</i> , 2016, 28, .	4.0	28
15	A mass-momentum consistent, Volume-of-Fluid method for incompressible flow on staggered grids. <i>Computers and Fluids</i> , 2021, 215, 104785.	2.5	25
16	Short-term oscillation and falling dynamics for a water drop dripping in quiescent air. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	15
17	Numerical study of natural oscillations of supported drops with free and pinned contact lines. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
18	Natural oscillations of a sessile drop on flat surfaces with mobile contact lines. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	13

#	ARTICLE	IF	CITATIONS
19	Impact of inlet gas turbulence on the formation, development and breakup of interfacial waves in a two-phase mixing layer. <i>Journal of Fluid Mechanics</i> , 2021, 921, .	3.4	12
20	A numerical source of small-scale number-density fluctuations in Eulerian-Lagrangian simulations of multiphase flows. <i>Journal of Computational Physics</i> , 2010, 229, 1828-1851.	3.8	11
21	Simulation and scaling analysis of a spherical particle-laden blast wave. <i>Shock Waves</i> , 2018, 28, 545-558.	1.9	11
22	Destabilization of a planar liquid stream by a co-flowing turbulent gas stream. <i>International Journal of Multiphase Flow</i> , 2020, 122, 103121.	3.4	8
23	A model to predict the oscillation frequency for drops pinned on a vertical planar surface. <i>Journal of Fluid Mechanics</i> , 2021, 928, .	3.4	6
24	A phase inversion benchmark for multiscale multiphase flows. <i>Journal of Computational Physics</i> , 2022, 450, 110810.	3.8	6
25	Asymptotic scaling laws and semi-similarity solutions for a finite-source spherical blast wave. <i>Journal of Fluid Mechanics</i> , 2018, 850, 674-707.	3.4	5
26	Detailed numerical simulations of pore competition in idealized micro-spall using the VOF method. <i>Computers and Fluids</i> , 2019, 189, 60-72.	2.5	5
27	Modeling and Simulation of Explosive Dispersal of Particles in a Multiphase Explosion. , 2009, , .		3
28	Oscillation Dynamics of Drops on Immiscible Thin Liquid Films. <i>Langmuir</i> , 2022, 38, 1243-1251.	3.5	3
29	Impact of Inlet Gas Turbulent Intensity on the Characteristics of Droplets Generated in Airblast Atomization. , 2019, , .		2
30	Direct numerical simulation of compressible interfacial multiphase flows using a mass-momentum-energy consistent volume-of-fluid method. <i>Computers and Fluids</i> , 2022, 236, 105267.	2.5	1
31	Importance of unsteady force and heating to particle interaction with shock/detonation waves. , 2012, , .		0