

Maike Baltussen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

650
citations

567144

15
h-index

580701

25
g-index

29
all docs

29
docs citations

29
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	On the drag force of bubbles in bubble swarms at intermediate and high Reynolds numbers. <i>Chemical Engineering Science</i> , 2011, 66, 3204-3211.	1.9	132
2	Direct numerical simulation of particulate flow with heat transfer. <i>International Journal of Multiphase Flow</i> , 2013, 57, 29-37.	1.6	93
3	A critical comparison of surface tension models for the volume of fluid method. <i>Chemical Engineering Science</i> , 2014, 109, 65-74.	1.9	53
4	A coupled Volume of Fluid and Immersed Boundary Method for simulating 3D multiphase flows with contact line dynamics in complex geometries. <i>Chemical Engineering Science</i> , 2017, 166, 28-41.	1.9	49
5	Direct numerical simulation study of droplet spreading on spherical particles. <i>Powder Technology</i> , 2019, 354, 11-18.	2.1	27
6	Direct numerical simulation of effective drag in dense gas-liquid-solid three-phase flows. <i>Chemical Engineering Science</i> , 2017, 158, 561-568.	1.9	26
7	Direct Numerical Simulations of gas-liquid-solid three phase flows. <i>Chemical Engineering Science</i> , 2013, 100, 293-299.	1.9	25
8	Numerical simulation of a square bubble column using Detached Eddy Simulation and Euler-Lagrange approach. <i>International Journal of Multiphase Flow</i> , 2018, 107, 275-288.	1.6	24
9	Oscillation dynamics of a bubble rising in viscous liquid. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	23
10	Extension of local front reconstruction method with controlled coalescence model. <i>Physics of Fluids</i> , 2018, 30, .	1.6	21
11	Hydrodynamic interaction of bubbles rising side-by-side in viscous liquids. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	20
12	A critical comparison of smooth and sharp interface methods for phase transition. <i>International Journal of Multiphase Flow</i> , 2019, 120, 103093.	1.6	19
13	Bubble formation from an orifice in liquid cross-flow. <i>Chemical Engineering Journal</i> , 2020, 386, 120902.	6.6	18
14	Cutting bubbles with a single wire. <i>Chemical Engineering Science</i> , 2017, 157, 138-146.	1.9	16
15	A numerical study of cutting bubbles with a wire mesh. <i>Chemical Engineering Science</i> , 2017, 165, 25-32.	1.9	16
16	An improved subgrid scale model for front-tracking based simulations of mass transfer from bubbles. <i>AIChE Journal</i> , 2020, 66, e16889.	1.8	16
17	Experimental study on the temperature distribution in fluidised beds. <i>Chemical Engineering Science</i> , 2022, 248, 117062.	1.9	14
18	Influence of wetting conditions on bubble formation from a submerged orifice. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Numerical simulations of bubble formation in liquid metal. International Journal of Multiphase Flow, 2020, 131, 103363.	1.6	9
20	Numerical study on the interaction of two bubbles rising side-by-side in viscous liquids. Chemical Engineering Journal, 2021, 410, 128257.	6.6	9
21	A multiple resolution approach using adaptive grids for fully resolved boundary layers on deformable gas-liquid interfaces at high Schmidt numbers. Chemical Engineering Science, 2020, 227, 115900.	1.9	8
22	Assessment of a subgrid-scale model for convection-dominated mass transfer for initial transient rise of a bubble. AIChE Journal, 2022, 68, .	1.8	5
23	Fully resolved scalar transport for high Prandtl number flows using adaptive mesh refinement. Chemical Engineering Science: X, 2019, 4, 100047.	1.5	4
24	Parallelization of a stochastic Euler-Lagrange model applied to large scale dense bubbly flows. Journal of Computational Physics: X, 2020, 8, 100058.	1.1	4
25	Comparison of the local front reconstruction method with a diffuse interface model for the modeling of droplet collisions. Chemical Engineering Science: X, 2020, 7, 100066.	1.5	4
26	A numerical study of flow boiling in a microchannel using the local front reconstruction method. AIChE Journal, 2022, 68, .	1.8	2
27	Influence of gas fraction on wall-to-liquid heat transfer in dense bubbly flows. Chemical Engineering Science: X, 2019, 4, 100037.	1.5	1
28	Influence of the free surface on hydrodynamics in a bubble column. Chemical Engineering Science: X, 2020, 8, 100077.	1.5	0