Maike Baltussen

List of Publications by Year
in descending order

28	650	567144 15	580701 25
papers	citations	h-index	g-index

29	29	29	579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental study on the temperature distribution in fluidised beds. Chemical Engineering Science, 2022, 248, 117062.	1.9	14
2	A numerical study of flow boiling in a microchannel using the local front reconstruction method. AIChE Journal, 2022, 68, .	1.8	2
3	Assessment of a subgridâ€scale model for convectionâ€dominated mass transfer for initial transient rise of a bubble. AIChE Journal, 2022, 68, .	1.8	5
4	Numerical study on the interaction of two bubbles rising side-by-side in viscous liquids. Chemical Engineering Journal, 2021, 410, 128257.	6.6	9
5	An improved subgrid scale model for frontâ€tracking based simulations of mass transfer from bubbles. AIChE Journal, 2020, 66, e16889.	1.8	16
6	Influence of the free surface on hydrodynamics in a bubble column. Chemical Engineering Science: X, 2020, 8, 100077.	1.5	0
7	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
8	Numerical simulations of bubble formation in liquid metal. International Journal of Multiphase Flow, 2020, 131, 103363.	1.6	9
9	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
10	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
11	Influence of wetting conditions on bubble formation from a submerged orifice. Experiments in Fluids, 2020, 61, 1.	1.1	11
12	Bubble formation from an orifice in liquid cross-flow. Chemical Engineering Journal, 2020, 386, 120902.	6.6	18
13	Oscillation dynamics of a bubble rising in viscous liquid. Experiments in Fluids, 2019, 60, 1.	1.1	23
14	Hydrodynamic interaction of bubbles rising side-by-side in viscous liquids. Experiments in Fluids, 2019, 60, 1.	1.1	20
15	Fully resolved scalar transport for high Prandtl number flows using adaptive mesh refinement. Chemical Engineering Science: X, 2019, 4, 100047.	1.5	4
16	Influence of gas fraction on wall-to-liquid heat transfer in dense bubbly flows. Chemical Engineering Science: X, 2019, 4, 100037.	1.5	1
17	A critical comparison of smooth and sharp interface methods for phase transition. International Journal of Multiphase Flow, 2019, 120, 103093.	1.6	19
18	Direct numerical simulation study of droplet spreading on spherical particles. Powder Technology, 2019, 354, 11-18.	2.1	27

#	Article	IF	Citations
19	Extension of local front reconstruction method with controlled coalescence model. Physics of Fluids, 2018, 30, .	1.6	21
20	Numerical simulation of a square bubble column using Detached Eddy Simulation and Eulerâ€“Lagrange approach. International Journal of Multiphase Flow, 2018, 107, 275-288.	1.6	24
21	Cutting bubbles with a single wire. Chemical Engineering Science, 2017, 157, 138-146.	1.9	16
22	A numerical study of cutting bubbles with a wire mesh. Chemical Engineering Science, 2017, 165, 25-32.	1.9	16
23	A coupled Volume of Fluid and Immersed Boundary Method for simulating 3D multiphase flows with contact line dynamics in complex geometries. Chemical Engineering Science, 2017, 166, 28-41.	1.9	49
24	Direct numerical simulation of effective drag in dense gasâ€“liquidâ€“solid three-phase flows. Chemical Engineering Science, 2017, 158, 561-568.	1.9	26
25	A critical comparison of surface tension models for the volume of fluid method. Chemical Engineering Science, 2014, 109, 65-74.	1.9	53
26	Direct numerical simulation of particulate flow with heat transfer. International Journal of Multiphase Flow, 2013, 57, 29-37.	1.6	93
27	Direct Numerical Simulations of gasâ€“liquidâ€“solid three phase flows. Chemical Engineering Science, 2013, 100, 293-299.	1.9	25
28	On the drag force of bubbles in bubble swarms at intermediate and high Reynolds numbers. Chemical Engineering Science, 2011, 66, 3204-3211.	1.9	132