Thomas Ziegenhein

List of Publications by Year
in descending order

19	757	567281 15	794594 19
papers	citations	h-index	g-index

19	19	19	508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transient simulation for large scale flow in bubble columns. Chemical Engineering Science, 2015, 122, 1-13.	3.8	91
2	Direct numerical simulationâ€“based Reynolds-averaged closure for bubble-induced turbulence. Physical Review Fluids, 2017, 2, .	2.5	90
3	Two-Phase Bubble Columns: A Comprehensive Review. ChemEngineering, 2018, 2, 13.	2.4	83
4	Unified modeling of bubbly flows in pipes, bubble columns, and airlift columns. Chemical Engineering Science, 2017, 157, 147-158.	3.8	69
5	Observations on bubble shapes in bubble columns under different flow conditions. Experimental Thermal and Fluid Science, 2017, 85, 248-256.	2.7	67
6	Computational Fluid-Dynamic modeling of the pseudo-homogeneous flow regime in large-scale bubble columns. Chemical Engineering Science, 2017, 160, 144-160.	3.8	55
7	Baseline Model for the Simulation of Bubbly Flows. Chemical Engineering and Technology, 2015, 38, 1972-1978.	1.5	49
8	Towards a unified approach for modelling uniform and nonâ€uniform bubbly flows. Canadian Journal of Chemical Engineering, 2017, 95, 170-179.	1.7	42
9	Eulerian modelling of turbulent bubbly flow based on a baseline closure concept. Nuclear Engineering and Design, 2018, 337, 450-459.	1.7	37
10	Numerical Simulation of Polydispersed Flow in Bubble Columns with the Inhomogeneous Multiâ€Sizeâ€Group Model. Chemie-Ingenieur-Technik, 2013, 85, 1080-1091.	0.8	29
11	Particle Shadow Velocimetry (PSV) in bubbly flows. International Journal of Multiphase Flow, 2018, 106, 268-279.	3.4	28
12	Bubbly flow in an airlift column: a CFD study. Journal of Chemical Technology and Biotechnology, 2016, 91, 2904-2915.	3.2	27
13	A systematic experimental study and dimensionless analysis of bubble plume oscillations in rectangular bubble columns. Chemical Engineering Journal, 2019, 372, 352-362.	12.7	22
14	Eulerâ€“Euler modeling and X-ray measurement of oscillating bubble chain in liquid metals. International Journal of Multiphase Flow, 2019, 110, 218-237.	3.4	21
15	Euler-Euler simulation and X-ray measurement of bubble chain in a shallow container filled with liquid metals. Chemical Engineering Science, 2018, 192, 288-305.	3.8	16
16	Experimental studies on bubble aspect ratio and corresponding correlations under bubble swarm condition. Chemical Engineering Science, 2021, 236, 116551.	3.8	14
17	The Bubble Shape in Contaminated Bubbly Flows: Results for Different NaCl Concentrations in Purified Water. ChemEngineering, 2018, 2, 18.	2.4	6
18	The pseudo-homogeneous flow regime in large-scale bubble columns: experimental benchmark and computational fluid dynamics modeling. Petroleum, 2019, 5, 141-160.	2.8	6

#	Article	IF	Citations
19	Experimental study of the liquid velocity and turbulence in a large-scale air-water counter-current bubble column. Experimental Thermal and Fluid Science, 2020, 111, 109955.	2.7	5