

Tobias Jakobs

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

127
citations

1307594

7
h-index

1372567

10
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12
all docs

12
docs citations

12
times ranked

81
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of the primary breakup of a high-viscosity liquid jet by a coaxial annular gas flow. International Journal of Multiphase Flow, 2016, 87, 212-228.	3.4	30
2	Improving the processability of coke water slurries for entrained flow gasification. Fuel, 2016, 185, 102-111.	6.4	26
3	Experimental investigation on the influence of system pressure on resulting spray quality and jet breakup applying pressure adapted twin-fluid nozzles. International Journal of Multiphase Flow, 2020, 125, 103189.	3.4	18
4	Effect of elevated pressure on air-assisted primary atomization of coaxial liquid jets: Basic research for entrained flow gasification. Renewable and Sustainable Energy Reviews, 2020, 134, 110411.	16.4	10
5	Effect of Solid Particles on Droplet Size Applying the Time-Shift Method for Spray Investigation. Applied Sciences (Switzerland), 2020, 10, 7615.	2.5	10
6	Comparison of Central Jet and Annular Sheet Atomizers at Identical Gas Momentum Flows. Industrial & Engineering Chemistry Research, 2021, 60, 11502-11512.	3.7	9
7	INFLUENCE OF REACTOR PRESSURE ON TWIN-FLUID ATOMIZATION: BASIC INVESTIGATIONS ON BURNER DESIGN FOR HIGH-PRESSURE ENTRAINED FLOW GASIFIER. Atomization and Sprays, 2015, 25, 1081-1105.	0.8	9
8	Towards system pressure scaling of gas assisted coaxial burner nozzles – An empirical model. Applications in Energy and Combustion Science, 2021, 5, 100019.	1.5	8
9	Mass Flow Scaling of Gas-Assisted Coaxial Atomizers. Applied Sciences (Switzerland), 2022, 12, 2123.	2.5	4
10	Coke Slurries with Improved Higher Heating Value and Good Processability via Particle Shape Design. Chemical Engineering and Technology, 2017, 40, 1885-1894.	1.5	1
11	Influence of Reactor Pressure on the Primary Jet Breakup of High-Viscosity Fuels: Basic Research for Simulation-Assisted Design of Low-Grade Fuel Burner. , 2018, , .		1
12	Effect of gas jet angle on primary breakup and droplet size applying coaxial gas-assisted atomizers. , 2021, 1, .		1