

Stephan Boden

List of Publications by Year in descending order

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papers

604
citations

566801

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docs citations

28
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of $\hat{\Gamma}^3\text{-Al}_2\text{O}_3/\hat{\Gamma}^\pm\text{-Al}_2\text{O}_3$ ceramic foams as catalyst carriers via the replica technique. <i>Catalysis Today</i> , 2022, 383, 64-73.	2.2	19
2	Horizontal annular flow through orifice studied by X-ray microtomography. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	10
3	Flow morphology and heat transfer analysis during high-pressure steam condensation in an inclined tube part I: Experimental investigations. <i>Nuclear Engineering and Design</i> , 2020, 361, 110553.	0.8	8
4	Experimental analysis of Taylor bubble behavior and mass transfer during lateral oscillation of a vertical milli-channel. <i>Chemical Engineering Journal</i> , 2017, 326, 308-317.	6.6	6
5	X-Ray Microtomography of Taylor Bubbles with Mass Transfer and Surfactants in Capillary Two-Phase Flow. <i>Advances in Mathematical Fluid Mechanics</i> , 2017, , 589-607.	0.1	0
6	Measurement of Taylor bubble shape in square channel by microfocus X-ray computed tomography for investigation of mass transfer. <i>Flow Measurement and Instrumentation</i> , 2017, 53, 49-55.	1.0	21
7	Investigation of surfactant effect on the bubble shape and mass transfer in a milli-channel using high-resolution microfocus X-ray imaging. <i>International Journal of Multiphase Flow</i> , 2016, 87, 184-196.	1.6	12
8	Mass transfer measurement in a square milli-channel and comparison with results from a circular channel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 251-260.	2.5	7
9	Investigation of mass transfer in milli-channels using high-resolution microfocus X-ray imaging. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 653-664.	2.5	11
10	Detection of gas entrainment into liquid metals. <i>Nuclear Engineering and Design</i> , 2015, 294, 16-23.	0.8	18
11	Validation of Interface Capturing and Tracking techniques with different surface tension treatments against a Taylor bubble benchmark problem. <i>Computers and Fluids</i> , 2014, 102, 336-352.	1.3	35
12	Synchrotron radiation microtomography of Taylor bubbles in capillary two-phase flow. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	16
13	Chimney Formation in Solidifying Ga-25wt pct In Alloys Under the Influence of Thermosolutal Melt Convection. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3797-3808.	1.1	75
14	Application of X-ray radiosopic methods for characterization of two-phase phenomena and solidification processes in metallic melts. <i>European Physical Journal: Special Topics</i> , 2013, 220, 63-77.	1.2	37
15	Quantitative comparison of Taylor flow simulations based on sharpâ€œinterface and diffuseâ€œinterface models. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 73, 344-361.	0.9	36
16	Influence of magnetic fields on the behavior of bubbles in liquid metals. <i>European Physical Journal: Special Topics</i> , 2013, 220, 167-183.	1.2	20
17	In situ X-ray monitoring of convection effects on segregation freckle formation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 33, 012035.	0.3	11
18	Observation of segregation freckle formation under the influence of melt convection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 27, 012085.	0.3	9

#	ARTICLE	IF	CITATIONS
19	Advanced Tomographic Techniques for Flow Imaging in Columns with Flow Distribution Packings. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 979-991.	0.4	28
20	Visualization of freckle formation induced by forced melt convection in solidifying GaIn alloys. <i>Materials Letters</i> , 2010, 64, 1340-1343.	1.3	45
21	Observation of dendritic growth and fragmentation in Ga-In alloys by X-ray radioscopy. <i>International Journal of Cast Metals Research</i> , 2009, 22, 30-33.	0.5	8
22	Miniature conductivity wire-mesh sensor for gas-liquid two-phase flow measurement. <i>Flow Measurement and Instrumentation</i> , 2009, 20, 15-21.	1.0	22
23	Quantitative measurement of gas hold-up distribution in a stirred chemical reactor using X-ray cone-beam computed tomography. <i>Chemical Engineering Journal</i> , 2008, 139, 351-362.	6.6	43
24	X-Ray Radioscopic Visualization of the Solutal Convection during Solidification of a Ga-30 Wt Pct In Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 613-623.	1.1	69
25	Three-dimensional analysis of macroporosity distributions in polyolefin particles using X-ray microtomography. <i>Powder Technology</i> , 2008, 188, 81-88.	2.1	12
26	A study on the two-phase flow in a stirred tank reactor agitated by a gas-inducing turbine. <i>Chemical Engineering Research and Design</i> , 2008, 86, 75-81.	2.7	25