

Davide Picchi

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

325
citations

759233

12
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

330
citing authors

#	ARTICLE	IF	CITATIONS
1	Disrupt the upper or the lower conduit? The dual role of gas exsolution in the conduits of persistently active volcanoes. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	0
2	Motion of a confined bubble in a shear-thinning liquid. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	3.4	16
3	Modeling the motion of a Taylor bubble in a microchannel through a shear-thinning fluid. <i>E3S Web of Conferences</i> , 2021, 312, 05006.	0.5	0
4	Taylor drop in a closed vertical pipe. <i>Journal of Fluid Mechanics</i> , 2020, 902, .	3.4	4
5	Scaling of two-phase water-steam relative permeability and thermal fluxes in porous media. <i>International Journal of Multiphase Flow</i> , 2020, 129, 103257.	3.4	8
6	Relative Permeability Scaling From Poreâ€Scale Flow Regimes. <i>Water Resources Research</i> , 2019, 55, 3215-3233.	4.2	25
7	Velocity profiles description and shape factors inclusion in a hyperbolic, one-dimensional, transient two-fluid model for stratified and slug flow simulations in pipes. <i>Petroleum</i> , 2019, 5, 191-198.	2.8	7
8	Modeling of core-annular and plug flows of Newtonian/non-Newtonian shear-thinning fluids in pipes and capillary tubes. <i>International Journal of Multiphase Flow</i> , 2018, 103, 43-60.	3.4	29
9	Stability of stratified two-phase channel flows of Newtonian/non-Newtonian shear-thinning fluids. <i>International Journal of Multiphase Flow</i> , 2018, 99, 111-131.	3.4	20
10	Bistability of buoyancy-driven exchange flows in vertical tubes. <i>Journal of Fluid Mechanics</i> , 2018, 850, 525-550.	3.4	20
11	The Impact of Poreâ€Scale Flow Regimes on Upscaling of Immiscible Twoâ€Phase Flow in Porous Media. <i>Water Resources Research</i> , 2018, 54, 6683-6707.	4.2	36
12	Characteristics of stratified flows of Newtonian/non-Newtonian shear-thinning fluids. <i>International Journal of Multiphase Flow</i> , 2017, 97, 109-133.	3.4	41
13	Uncertainty quantification and global sensitivity analysis of mechanistic one-dimensional models and flow pattern transition boundaries predictions for two-phase pipe flows. <i>International Journal of Multiphase Flow</i> , 2017, 90, 64-78.	3.4	6
14	Simplified 1D Incompressible Two-Fluid Model with Artificial Diffusion for Slug Flow Capturing in Horizontal and Nearly Horizontal Pipes. <i>Energies</i> , 2017, 10, 1372.	3.1	12
15	A unified model to predict flow pattern transitions in horizontal and slightly inclined two-phase gas/shear-thinning fluid pipe flows. <i>International Journal of Multiphase Flow</i> , 2016, 84, 279-291.	3.4	16
16	Stability of multiple solutions in inclined gas/shear-thinning fluid stratified pipe flow. <i>International Journal of Multiphase Flow</i> , 2016, 84, 176-187.	3.4	15
17	Gas/shear-thinning liquid flows through pipes: Modeling and experiments. <i>International Journal of Multiphase Flow</i> , 2015, 73, 217-226.	3.4	26
18	An experimental investigation and two-fluid model validation for dilute viscous oil in water dispersed pipe flow. <i>Experimental Thermal and Fluid Science</i> , 2015, 60, 28-34.	2.7	20

#	ARTICLE	IF	CITATIONS
19	Flow pattern transition, pressure gradient, hold-up predictions in gas/non-Newtonian power-law fluid stratified flow. International Journal of Multiphase Flow, 2014, 63, 105-115.	3.4	24