Davide Picchi

List of Publications by Year
in descending order

19	325	759233 12	888059 17
papers	citations	h-index	g-index

19	19	19	330
all docs	docs citations	times ranked	citing authors

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

#	Article	IF	Citations
19	Disrupt the upper or the lower conduit? The dual role of gas exsolution in the conduits of persistently active volcanoes. Journal of Fluid Mechanics, 2022, 942, .	3.4	0