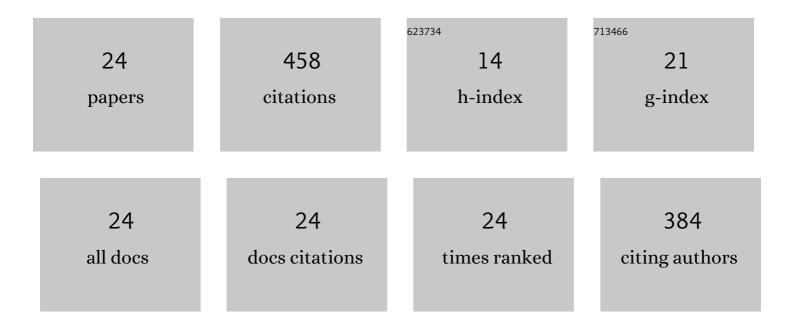
Laurent Talon

List of Publications by Year in descending order

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LAUDENT TALON

#	Article	IF	CITATIONS
1	On the determination of a generalized Darcy equation for yield-stress fluid in porous media using a Lattice-Boltzmann TRT scheme. European Physical Journal E, 2013, 36, 139.	1.6	45
2	Convective/absolute instability in miscible core-annular flow. Part 2. Numerical simulations and nonlinear global modes. Journal of Fluid Mechanics, 2009, 618, 323-348.	3.4	44
3	Convective/absolute instability in miscible core-annular flow. Part 1: Experiments. Journal of Fluid Mechanics, 2009, 618, 305-322.	3.4	38
4	Experimental Evidence for Three Universality Classes for Reaction Fronts in Disordered Flows. Physical Review Letters, 2015, 114, 234502.	7.8	36
5	Autocatalytic Reaction Fronts Inside a Porous Medium of Glass Spheres. Physical Review Letters, 2013, 110, 148301.	7.8	32
6	Generalization of Darcy's law for Bingham fluids in porous media: From flow-field statistics to the flow-rate regimes. Physical Review E, 2015, 91, 023011.	2.1	28
7	Low- and high-order accurate boundary conditions: From Stokes to Darcy porous flow modeled with standard and improved Brinkman lattice Boltzmann schemes. Journal of Computational Physics, 2017, 335, 50-83.	3.8	27
8	Lock-exchange experiments with an autocatalytic reaction front. Journal of Chemical Physics, 2010, 133, 244505.	3.0	25
9	Permeability of self-affine aperture fields. Physical Review E, 2010, 82, 046108.	2.1	25
10	Phase diagram of sustained wave fronts opposing the flow in disordered porous media. Europhysics Letters, 2013, 101, 38003.	2.0	22
11	Effective rheology of Bingham fluids in a rough channel. Frontiers in Physics, 2014, 2, .	2.1	20
12	Viscous lock-exchange in rectangular channels. Journal of Fluid Mechanics, 2011, 673, 132-146.	3.4	19
13	History effects on nonwetting fluid residuals during desaturation flow through disordered porous media. Physical Review E, 2015, 91, 043015.	2.1	16
14	Darcy's Law for Yield Stress Fluids. Physical Review Letters, 2019, 122, 245502.	7.8	15
15	Geometry of optimal path hierarchies. Europhysics Letters, 2013, 103, 30003.	2.0	14
16	The fate of shear-oscillated amorphous solids. Journal of Chemical Physics, 2022, 156, 104902.	3.0	11
17	Moving line model and avalanche statistics of Bingham fluid flow in porous media. European Physical Journal E, 2015, 38, 76.	1.6	10
18	Low Reynolds number suspension gravity currents. European Physical Journal E, 2013, 36, 85.	1.6	7

LAURENT TALON

#	Article	IF	CITATIONS
19	Stabilizing viscosity contrast effect on miscible displacement in heterogeneous porous media, using lattice Bhatnagar–Gross–Krook simulations. Physics of Fluids, 2004, 16, 4408-4411.	4.0	6
20	Effective Rheology of Bi-viscous Non-newtonian Fluids in Porous Media. Frontiers in Physics, 2020, 7, .	2.1	5
21	Relation between first arrival time and permeability in self-affine fractures with areas in contact. Europhysics Letters, 2012, 97, 68009.	2.0	4
22	Strong pinning of propagation fronts in adverse flow. Physical Review E, 2014, 89, 041004.	2.1	4
23	On the statistical properties of fluid flows with transitional power-law rheology in heterogeneous porous media. Journal of Non-Newtonian Fluid Mechanics, 2022, 304, 104789.	2.4	3
24	On the determination of a generalized Darcy equation for yield stress fluid in porous media. , 2022, 3, 100042.		2