Laurent Talon

List of Publications by Year
in descending order

24 papers	458 citations	623734 14 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	384 citing authors

#	Article	IF	Citations
1	The fate of shear-oscillated amorphous solids. Journal of Chemical Physics, 2022, 156, 104902.	3.0	11
2	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
3	On the determination of a generalized Darcy equation for yield stress fluid in porous media. , 2022, 3, 100042.		2
4	Effective Rheology of Bi-viscous Non-newtonian Fluids in Porous Media. Frontiers in Physics, 2020, 7, .	2.1	5
5	Darcyâ€™s Law for Yield Stress Fluids. Physical Review Letters, 2019, 122, 245502.	7.8	15
6	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
7	Experimental Evidence for Three Universality Classes for Reaction Fronts in Disordered Flows. Physical Review Letters, 2015, 114, 234502.	7.8	36
8	Moving line model and avalanche statistics of Bingham fluid flow in porous media. European Physical Journal E, 2015, 38, 76.	1.6	10
9	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
10	History effects on nonwetting fluid residuals during desaturation flow through disordered porous media. Physical Review E, 2015, 91, 043015.	2.1	16
11	Effective rheology of Bingham fluids in a rough channel. Frontiers in Physics, 2014, 2, .	2.1	20
12	Strong pinning of propagation fronts in adverse flow. Physical Review E, 2014, 89, 041004.	2.1	4
13	Low Reynolds number suspension gravity currents. European Physical Journal E, 2013, 36, 85.	1.6	7
14	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
15	Autocatalytic Reaction Fronts Inside a Porous Medium of Glass Spheres. Physical Review Letters, 2013, 110, 148301.	7.8	32
16	Geometry of optimal path hierarchies. Europhysics Letters, 2013, 103, 30003.	2.0	14
17	Phase diagram of sustained wave fronts opposing the flow in disordered porous media. Europhysics Letters, 2013, 101, 38003.	2.0	22
18	Relation between first arrival time and permeability in self-affine fractures with areas in contact. Europhysics Letters, 2012, 97, 68009.	2.0	4

#	Article	IF	Citations
19	Viscous lock-exchange in rectangular channels. Journal of Fluid Mechanics, 2011, 673, 132-146.	3.4	19
20	Lock-exchange experiments with an autocatalytic reaction front. Journal of Chemical Physics, 2010, 133, 244505.	3.0	25
21	Permeability of self-affine aperture fields. Physical Review E, 2010, 82, 046108.	2.1	25
22	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
23	Convective/absolute instability in miscible core-annular flow. Part 1: Experiments. Journal of Fluid Mechanics, 2009, 618, 305-322.	3.4	38
24	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