

Laurent Talon

List of Publications by Year in descending order

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623734

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docs citations

24
times ranked

384
citing authors

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

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