

Dominique Salin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7866605/publications.pdf>

Version: 2024-02-01

64
papers

2,438
citations

201674

27
h-index

197818

49
g-index

64
all docs

64
docs citations

64
times ranked

1573
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting the linear stability analysis and absolute convective transition of two fluid core annular flow. <i>Journal of Fluid Mechanics</i> , 2019, 865, 743-761.	3.4	12
2	Stripes instability of an oscillating non-Brownian iso-dense suspension of spheres. <i>Europhysics Letters</i> , 2018, 121, 54002.	2.0	2
3	Experimental Evidence for Three Universality Classes for Reaction Fronts in Disordered Flows. <i>Physical Review Letters</i> , 2015, 114, 234502.	7.8	36
4	Pore Network Modeling of Drying Processes in Macroporous Materials: Effects of Gravity, Mass Boundary Layer and Pore Microstructure. <i>Transport in Porous Media</i> , 2015, 110, 175-196.	2.6	17
5	Autocatalytic Reaction Fronts Inside a Porous Medium of Glass Spheres. <i>Physical Review Letters</i> , 2013, 110, 148301.	7.8	32
6	Phase diagram of sustained wave fronts opposing the flow in disordered porous media. <i>Europhysics Letters</i> , 2013, 101, 38003.	2.0	22
7	Viscous lock-exchange in rectangular channels. <i>Journal of Fluid Mechanics</i> , 2011, 673, 132-146.	3.4	19
8	Lock-exchange experiments with an autocatalytic reaction front. <i>Journal of Chemical Physics</i> , 2010, 133, 244505.	3.0	25
9	Convective/absolute instability in miscible core-annular flow. Part 1: Experiments. <i>Journal of Fluid Mechanics</i> , 2009, 618, 305-322.	3.4	38
10	Pearl and mushroom instability patterns in two miscible fluids' core annular flows. <i>Physics of Fluids</i> , 2008, 20, .	4.0	56
11	On the selection principle for viscous fingering in porous media. <i>Journal of Fluid Mechanics</i> , 2006, 557, 225.	3.4	29
12	Gravity Waves at the Interface between Miscible Fluids and at the Top of a Settling Suspension. <i>Physical Review Letters</i> , 2005, 94, 204501.	7.8	3
13	Mixing and reaction fronts in laminar flows. <i>Journal of Chemical Physics</i> , 2004, 120, 7314-7321.	3.0	18
14	Fluid displacement between two parallel plates: a non-empirical model displaying change of type from hyperbolic to elliptic equations. <i>Journal of Fluid Mechanics</i> , 2004, 519, 105-132.	3.4	9
15	Pattern of Reaction Diffusion Fronts in Laminar Flows. <i>Physical Review Letters</i> , 2003, 90, 128302.	7.8	69
16	Asymptotic regimes in unstable miscible displacements in random porous media. <i>Advances in Water Resources</i> , 2002, 25, 885-898.	3.8	24
17	Delineation of Microscale Regimes of Fully-Developed Drainage and Implications for Continuum Models. <i>Computational Geosciences</i> , 2001, 5, 257-278.	2.4	14
18	Non-Gaussian Dynamics in Quasi-2D Noncolloidal Suspensions. <i>Physical Review Letters</i> , 1999, 83, 1058-1061.	7.8	25

#	ARTICLE	IF	CITATIONS
19	11. Acoustical and Electrical Methods for the Study of Fluid Mixing in Porous Media. <i>Experimental Methods in the Physical Sciences</i> , 1999, 35, 425-475.	0.1	3
20	Miscible displacement in a Hele-Shaw cell at high rates. <i>Journal of Fluid Mechanics</i> , 1999, 398, 299-319.	3.4	140
21	Invasion percolation with viscous forces. <i>Physical Review E</i> , 1998, 57, 739-751.	2.1	107
22	Phase Diagram of Fully Developed Drainage in Porous Media. <i>Physical Review Letters</i> , 1997, 79, 4581-4584.	7.8	81
23	3D Instability of Miscible Displacements in a Hele-Shaw Cell. <i>Physical Review Letters</i> , 1997, 79, 5254-5257.	7.8	101
24	Miscible displacement between two parallel plates: BGK lattice gas simulations. <i>Journal of Fluid Mechanics</i> , 1997, 338, 277-297.	3.4	85
25	Fingering in 2D Parallel Viscous Flow. <i>Journal De Physique II</i> , 1997, 7, 967-972.	0.9	4
26	Phase diagram of stable miscible displacements in layered porous media. <i>Europhysics Letters</i> , 1996, 36, 105-110.	2.0	11
27	Correlation of Saturation Profiles in Slow Drainage in Porous Media. <i>Journal De Physique, I</i> , 1996, 6, 753-767.	1.2	0
28	Viscous coupling in a model porous medium geometry: Effect of fluid contact area. <i>Flow, Turbulence and Combustion</i> , 1995, 55, 155-169.	0.2	21
29	Boltzmann cellular automata studies of the spinodal decomposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 222, 105-118.	2.6	6
30	Two-color nonlinear Boltzmann cellular automata: Surface tension and wetting. <i>Physical Review E</i> , 1995, 51, 3718-3728.	2.1	76
31	Correlation of Occupation Profiles in Invasion Percolation. <i>Physical Review Letters</i> , 1995, 74, 694-697.	7.8	18
32	Hydrodynamic Dispersion of Noncolloidal Suspensions: Measurement from Einstein's Argument. <i>Physical Review Letters</i> , 1995, 74, 1347-1350.	7.8	27
33	Evidence of New Instability Thresholds in Miscible Displacements in Porous Media. <i>Europhysics Letters</i> , 1995, 32, 633-638.	2.0	25
34	Interfacial Phenomena in Boltzmann Cellular Automata. <i>Europhysics Letters</i> , 1994, 28, 317-322.	2.0	5
35	Invasion percolation in a hydrostatic or permeability gradient: Experiments and simulations. <i>Physical Review E</i> , 1994, 49, 4133-4139.	2.1	48
36	Capillary effects in drainage in heterogeneous porous media: continuum modelling, experiments and pore network simulations. <i>Chemical Engineering Science</i> , 1994, 49, 2447-2466.	3.8	53

#	ARTICLE	IF	CITATIONS
37	Large-scale percolation theory of drainage. <i>Transport in Porous Media</i> , 1993, 10, 171-195.	2.6	48
38	Dispersion, permeability heterogeneity, and viscous fingering: Acoustic experimental observations and particle-tracking simulations. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1558-1574.	1.6	92
39	Capillary Effects in Immiscible Flows in Heterogeneous Porous Media. <i>Europhysics Letters</i> , 1993, 21, 19-24.	2.0	22
40	Wave Vector Selection in the Instability of an Interface in a Magnetic or Electric Field. <i>Europhysics Letters</i> , 1993, 21, 667-670.	2.0	19
41	Cellular-automata studies of circular Couette flows and chaotic mixing. <i>Physical Review E</i> , 1993, 48, 757-766.	2.1	6
42	Miscible viscous fingering: Experiments versus continuum approach. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1611-1619.	1.6	40
43	Cellular automata studies of mixing in chaotic flows. <i>Computational Materials Science</i> , 1992, 1, 87-93.	3.0	31
44	Three-dimensional miscible viscous fingering in porous media. <i>Physical Review Letters</i> , 1991, 67, 2005-2008.	7.8	42
45	Magnetic-fluid oscillator: Observation of nonlinear period doubling. <i>Physical Review Letters</i> , 1991, 67, 50-53.	7.8	26
46	Ultrasonic diagnostic in porous media and suspensions. <i>Journal De Physique III</i> , 1991, 1, 1455-1466.	0.3	17
47	Anomalous dispersion and finite-size effects in hydrodynamic dispersion. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 674-680.	1.6	20
48	Ionic ferrofluids: A crossing of chemistry and physics. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 85, 27-32.	2.3	220
49	Capillary Hyperdiffusion as a Test of Wettability. <i>Europhysics Letters</i> , 1990, 11, 127-132.	2.0	26
50	Magnetic liquids. <i>Endeavour</i> , 1988, 12, 76-83.	0.4	35
51	Magnetic and thermal behaviour of $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ fine grains. <i>Journal of Magnetism and Magnetic Materials</i> , 1988, 71, 246-254.	2.3	21
52	Magnetic Wetting Transition of a Ferrofluid on a Wire. <i>Europhysics Letters</i> , 1988, 5, 547-552.	2.0	17
53	MULTIPLE SCISSIONS OF IONIC FERROFLUID DROPS. <i>Chemical Engineering Communications</i> , 1988, 67, 205-216.	2.6	8
54	Magnetic drop-sheath wetting transition of a ferrofluid on a wire. <i>Revue De Physique Appliquée</i> , 1988, 23, 1017-1022.	0.4	18

#	ARTICLE	IF	CITATIONS
55	Experimental Evidence of Disorder Effects in Hydrodynamic Dispersion. Physical Review Letters, 1987, 58, 2035-2038.	7.8	45
56	Ionic ferrofluid: Optical properties. Journal of Magnetism and Magnetic Materials, 1987, 65, 285-288.	2.3	32
57	Sound velocity of a sandstone saturated with oil and brine at different concentrations. Geophysical Research Letters, 1986, 13, 326-328.	4.0	33
58	Magnetic colloidal properties of ionic ferrofluids. Journal of Magnetism and Magnetic Materials, 1986, 62, 36-46.	2.3	201
59	Acoustic Study of Suspension Sedimentation. Europhysics Letters, 1986, 2, 123-128.	2.0	46
60	Bistability of ferrofluid magnetic drops under magnetic field,. Journal of Magnetism and Magnetic Materials, 1983, 39, 48-50.	2.3	46
61	Critical behavior of order-parameter fluctuations in liquidHe4nearT λ . Physical Review B, 1979, 20, 1025-1034.	3.2	3
62	Direct measurement of the modified equation of state of thin helium films. Journal of Low Temperature Physics, 1979, 37, 679-693.	1.4	4
63	Inhomogeneities in thin helium films. Journal of Low Temperature Physics, 1977, 28, 359-368.	1.4	5
64	Quasielastic Rayleigh Scattering in a Smectic-ACrystal. Physical Review Letters, 1974, 32, 6-9.	7.8	54