

Zhong Zheng

List of Publications by Year in descending order

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papers

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389
citing authors

#	ARTICLE	IF	CITATIONS
1	The Influence of Boundaries on Gravity Currents and Thin Films: Drainage, Confinement, Convergence, and Deformation Effects. <i>Annual Review of Fluid Mechanics</i> , 2022, 54, 27-56.	25.0	17
2	Shape of spreading and leveling gravity currents in a Hele-Shaw cell with flow-wise width variation. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6
3	Self-similar dynamics of two-phase flows injected into a confined porous layer. <i>Journal of Fluid Mechanics</i> , 2019, 877, 882-921.	3.4	10
4	Healing capillary films. <i>Journal of Fluid Mechanics</i> , 2018, 838, 404-434.	3.4	23
5	Dynamics of viscous backflow from a model fracture network. <i>Journal of Fluid Mechanics</i> , 2018, 836, 828-849.	3.4	16
6	Symmetric coalescence of two hydraulic fractures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10228-10232.	7.1	5
7	Flow of buoyant granular materials along a free surface. <i>Journal of Fluid Mechanics</i> , 2018, 848, 312-339.	3.4	3
8	Universality in the nonlinear leveling of capillary films. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	10
9	Formation of sea ice bridges in narrow straits in response to wind and water stresses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5588-5610.	2.6	13
10	Wind-Driven Formation of Ice Bridges in Straits. <i>Physical Review Letters</i> , 2017, 118, 128701.	7.8	3
11	The influence of capillary effects on the drainage of a viscous gravity current into a deep porous medium. <i>Journal of Fluid Mechanics</i> , 2017, 817, 514-559.	3.4	19
12	Inertial gravity currents produced by fluid drainage from an edge. <i>Journal of Fluid Mechanics</i> , 2017, 827, 640-663.	3.4	14
13	Flow of a gravity current in a porous medium accounting for drainage from a permeable substrate and an edge. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	16
14	Axisymmetric flows from fluid injection into a confined porous medium. <i>Physics of Fluids</i> , 2016, 28, .	4.0	33
15	Elastic Relaxation of Fluid-Driven Cracks and the Resulting Backflow. <i>Physical Review Letters</i> , 2016, 117, 268001.	7.8	24
16	Fluid-driven cracks in an elastic matrix in the toughness-dominated limit. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150425.	3.4	16
17	Flow regime analysis for geologic CO ₂ sequestration and other subsurface fluid injections. <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 284-291.	4.6	20
18	Converging gravity currents over a permeable substrate. <i>Journal of Fluid Mechanics</i> , 2015, 778, 669-690.	3.4	19

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19	Propagation of a viscous thin film over an elastic membrane. <i>Journal of Fluid Mechanics</i> , 2015, 784, 443-464.	3.4	12
20	Experimental study on penny-shaped fluid-driven cracks in an elastic matrix. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150255.	2.1	29
21	Controlling Viscous Fingering Using Time-Dependent Strategies. <i>Physical Review Letters</i> , 2015, 115, 174501.	7.8	76
22	Noncircular Stable Displacement Patterns in a Meshed Porous Layer. <i>Langmuir</i> , 2015, 31, 5684-5688.	3.5	6
23	Flow regimes for fluid injection into a confined porous medium. <i>Journal of Fluid Mechanics</i> , 2015, 767, 881-909.	3.4	55
24	Viscous fluid injection into a confined channel. <i>Physics of Fluids</i> , 2015, 27, .	4.0	23
25	Influence of heterogeneity on second-kind self-similar solutions for viscous gravity currents. <i>Journal of Fluid Mechanics</i> , 2014, 747, 218-246.	3.4	39
26	Fluid drainage from the edge of a porous reservoir. <i>Journal of Fluid Mechanics</i> , 2013, 718, 558-568.	3.4	40