

Xiaojing Fu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

444
citations

759233

12
h-index

794594

19
g-index

24
all docs

24
docs citations

24
times ranked

537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Signatures of fluid-fluid displacement in porous media: wettability, patterns and pressures. Journal of Fluid Mechanics, 2019, 875, . | 3.4 | 72 |
| 2 | Wettability and Lenormand's diagram. Journal of Fluid Mechanics, 2021, 923, . | 3.4 | 47 |
| 3 | Rock dissolution patterns and geochemical shutdown of "brine" carbonate reactions during convective mixing in porous media. Journal of Fluid Mechanics, 2015, 764, 296-315. | 3.4 | 43 |
| 4 | Pattern formation and coarsening dynamics in three-dimensional convective mixing in porous media. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120355. | 3.4 | 42 |
| 5 | Multiscale Digital Porous Rock Reconstruction Using Template Matching. Water Resources Research, 2019, 55, 6911-6922. | 4.2 | 42 |
| 6 | Improved characterization of heterogeneous permeability in saline aquifers from transient pressure data during freshwater injection. Water Resources Research, 2017, 53, 4444-4458. | 4.2 | 26 |
| 7 | Viscous fingering with partially miscible fluids. Physical Review Fluids, 2017, 2, . | 2.5 | 25 |
| 8 | Nonequilibrium Thermodynamics of Hydrate Growth on a Gas-Liquid Interface. Physical Review Letters, 2018, 120, 144501. | 7.8 | 22 |
| 9 | Crustal fingering facilitates free-gas methane migration through the hydrate stability zone. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31660-31664. | 7.1 | 22 |
| 10 | Thermodynamic coarsening arrested by viscous fingering in partially miscible binary mixtures. Physical Review E, 2016, 94, 033111. | 2.1 | 21 |
| 11 | Pore-scale modeling of phase change in porous media. Physical Review Fluids, 2018, 3, . | 2.5 | 18 |
| 12 | Hydrate Formation on Marine Seep Bubbles and the Implications for Water Column Methane Dissolution. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017363. | 2.6 | 14 |
| 13 | Uncertainty in modeled and observed climate change impacts on <sc>A</sc>merican <sc>M</sc>idwest hydrology. Water Resources Research, 2015, 51, 3635-3646. | 4.2 | 12 |
| 14 | Xenon Hydrate as an Analog of Methane Hydrate in Geologic Systems Out of Thermodynamic Equilibrium. Geochemistry, Geophysics, Geosystems, 2019, 20, 2462-2472. | 2.5 | 11 |
| 15 | Numerical Simulation of Unstable Preferential Flow during Water Infiltration into Heterogeneous Dry Soil. Water (Switzerland), 2020, 12, 909. | 2.7 | 11 |
| 16 | Effects of model resolution on optimal design of subsurface flow and transport problems. Advances in Water Resources, 2012, 38, 27-37. | 3.8 | 7 |
| 17 | Interplay between Fingering Instabilities and Initial Soil Moisture in Solute Transport through the Vadose Zone. Water (Switzerland), 2020, 12, 917. | 2.7 | 5 |
| 18 | Understanding the Impact of Boundary and Initial Condition Errors on the Solution to a Thermal Diffusivity Inverse Problem. SIAM Undergraduate Research Online, 0, 4, 156-174. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Some Lava Flows May Not Have Been as Thick as They Appear. <i>Geophysical Research Letters</i> , 2021, 48, . | 4.0 | 1 |
| 20 | Pattern formation and coarsening dynamics in three-dimensional convective mixing in porous media. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120355. | 3.4 | 1 |
| 21 | Experimental design of diffusion and desorption of contaminant in heterogeneous media. <i>Water Science and Technology</i> , 2011, 64, 988-998. | 2.5 | 0 |
| 22 | Parameter identification and sensitivity analysis to a thermal diffusivity inverse problem. <i>Involve</i> , 2015, 8, 385-400. | 0.2 | 0 |