

Juan J Hidalgo

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,116
citations

759055

12
h-index

713332

21
g-index

28
all docs

28
docs citations

28
times ranked

1183
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Upscaling Mixing-Controlled Reactions in Unsaturated Porous Media. <i>Transport in Porous Media</i> , 2023, 146, 177-196. | 1.2 | 4 |
| 2 | Transport under advective trapping. <i>Journal of Fluid Mechanics</i> , 2021, 907, . | 1.4 | 4 |
| 3 | Transport Upscaling in Highly Heterogeneous Aquifers and the Prediction of Tracer Dispersion at the MADE Site. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088292. | 1.5 | 10 |
| 4 | Effective dispersion coefficients for the upscaling of pore-scale mixing and reaction. <i>Advances in Water Resources</i> , 2020, 146, 103782. | 1.7 | 11 |
| 5 | Assessment and Prediction of Pore-Scale Reactive Mixing From Experimental Conservative Transport Data. <i>Water Resources Research</i> , 2020, 56, e2019WR026452. | 1.7 | 8 |
| 6 | Competition Is the Underlying Mechanism Controlling Viscous Fingering and Wormhole Growth. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084795. | 1.5 | 6 |
| 7 | Upscaling of Mixing-Limited Bimolecular Chemical Reactions in Poiseuille Flow. <i>Water Resources Research</i> , 2019, 55, 249-269. | 1.7 | 31 |
| 8 | Reactive Random Walk Particle Tracking and Its Equivalence With the Advection-Diffusion-Reaction Equation. <i>Water Resources Research</i> , 2019, 55, 847-855. | 1.7 | 15 |
| 9 | Mechanisms of dispersion in a porous medium. <i>Journal of Fluid Mechanics</i> , 2018, 841, 851-882. | 1.4 | 67 |
| 10 | Mixing across fluid interfaces compressed by convective flow in porous media. <i>Journal of Fluid Mechanics</i> , 2018, 838, 105-128. | 1.4 | 14 |
| 11 | Tracer test modeling for characterizing heterogeneity and local-scale residence time distribution in an artificial recharge site. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4209-4221. | 1.9 | 6 |
| 12 | Non-Fickian Transport Under Heterogeneous Advection and Mobile-Immobile Mass Transfer. <i>Transport in Porous Media</i> , 2016, 115, 265-289. | 1.2 | 22 |
| 13 | Dissolution patterns and mixing dynamics in unstable reactive flow. <i>Geophysical Research Letters</i> , 2015, 42, 6357-6364. | 1.5 | 49 |
| 14 | Controlling Factors of Wormhole Growth in Karst Aquifers. , 2015, , 379-385. | | 1 |
| 15 | Dynamics of convective dissolution from a migrating current of carbon dioxide. <i>Advances in Water Resources</i> , 2013, 62, 511-519. | 1.7 | 29 |
| 16 | Scaling of Convective Mixing in Porous Media. <i>Physical Review Letters</i> , 2012, 109, 264503. | 2.9 | 119 |
| 17 | Vertical average for modeling seawater intrusion. <i>Water Resources Research</i> , 2011, 47, . | 1.7 | 9 |
| 18 | Computational and conceptual issues in the calibration of seawater intrusion models. <i>Hydrogeology Journal</i> , 2010, 18, 131-145. | 0.9 | 90 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Steady state heat transport in 3D heterogeneous porous media. <i>Advances in Water Resources</i> , 2009, 32, 1206-1212. | 1.7 | 41 |
| 20 | Role of salt sources in density-dependent flow. <i>Water Resources Research</i> , 2009, 45, . | 1.7 | 16 |
| 21 | Effect of dispersion on the onset of convection during CO ₂ sequestration. <i>Journal of Fluid Mechanics</i> , 2009, 640, 441-452. | 1.4 | 138 |
| 22 | Inverse problem in hydrogeology. <i>Hydrogeology Journal</i> , 2005, 13, 206-222. | 0.9 | 426 |