

Daniel Fernández-García

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,612
citations

257450

24
h-index

302126

39
g-index

53
all docs

53
docs citations

53
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	A review and numerical assessment of the random walk particle tracking method. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 277-305.	3.3	261
2	Relative importance of geostatistical and transport models in describing heavily tailed breakthrough curves at the Lauswiesen site. <i>Journal of Contaminant Hydrology</i> , 2008, 101, 1-13.	3.3	83
3	Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation. <i>Water Resources Research</i> , 2010, 46, .	4.2	74
4	Differences in the scale-dependence of dispersivity estimated from temporal and spatial moments in chemically and physically heterogeneous porous media. <i>Advances in Water Resources</i> , 2005, 28, 745-759.	3.8	71
5	A comparison of Eulerian and Lagrangian transport and non-linear reaction algorithms. <i>Advances in Water Resources</i> , 2017, 99, 15-37.	3.8	61
6	Point-to-point connectivity, an abstract concept or a key issue for risk assessment studies?. <i>Advances in Water Resources</i> , 2008, 31, 1742-1753.	3.8	50
7	On the formation of breakthrough curves tailing during convergent flow tracer tests in three-dimensional heterogeneous aquifers. <i>Water Resources Research</i> , 2013, 49, 4157-4173.	4.2	50
8	Probabilistic analysis of groundwater-related risks at subsurface excavation sites. <i>Engineering Geology</i> , 2012, 125, 35-44.	6.3	49
9	A risk-based probabilistic framework to estimate the endpoint of remediation: Concentration rebound by rate-limited mass transfer. <i>Water Resources Research</i> , 2013, 49, 1929-1942.	4.2	47
10	Conservative and sorptive forced-gradient and uniform flow tracer tests in a three-dimensional laboratory test aquifer. <i>Water Resources Research</i> , 2004, 40, .	4.2	45
11	A sensitivity analysis of tide-induced head fluctuations in coastal aquifers. <i>Journal of Hydrology</i> , 2010, 393, 370-380.	5.4	45
12	Toward efficiency in heterogeneous multispecies reactive transport modeling: A particle-tracking solution for first-order network reactions. <i>Water Resources Research</i> , 2014, 50, 7206-7230.	4.2	44
13	Differences in the scale dependence of dispersivity and retardation factors estimated from forced-gradient and uniform flow tracer tests in three-dimensional physically and chemically heterogeneous porous media. <i>Water Resources Research</i> , 2005, 41, .	4.2	41
14	Probabilistic human health risk assessment of degradation-related chemical mixtures in heterogeneous aquifers: Risk statistics, hot spots, and preferential channels. <i>Water Resources Research</i> , 2015, 51, 4086-4108.	4.2	40
15	Vadose zone oxygen (O ₂) dynamics during drying and wetting cycles: An artificial recharge laboratory experiment. <i>Journal of Hydrology</i> , 2015, 527, 151-159.	5.4	39
16	Convergent-flow tracer tests in heterogeneous media: combined experimental-numerical analysis for determination of equivalent transport parameters. <i>Journal of Contaminant Hydrology</i> , 2002, 57, 129-145.	3.3	36
17	Assessment of the predictive capabilities of stochastic theories in a three-dimensional laboratory test aquifer: Effective hydraulic conductivity and temporal moments of breakthrough curves. <i>Water Resources Research</i> , 2005, 41, .	4.2	36
18	A KDE-based Random Walk Method for Modeling Reactive Transport With Complex Kinetics in Porous Media. <i>Water Resources Research</i> , 2017, 53, 9019-9039.	4.2	36

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19	Apparent directional mass-transfer capacity coefficients in three-dimensional anisotropic heterogeneous aquifers under radial convergent transport. <i>Water Resources Research</i> , 2014, 50, 1205-1224.	4.2	35
20	Reaction rates and effective parameters in stratified aquifers. <i>Advances in Water Resources</i> , 2008, 31, 1364-1376.	3.8	33
21	Elimination of the Reaction Rate "Scale Effect": Application of the Lagrangian Reactive Particle Tracking Method to Simulate Mixing-Limited, Field-Scale Biodegradation at the Schoolcraft (MI, U.S.) Aquifer. <i>Journal of Hydrology</i> , 2011, 101, 1-14.	1.0	33
22	Visualization of Mixing Processes in a Heterogeneous Sand Box Aquifer. <i>Environmental Science & Technology</i> , 2012, 46, 3228-3235.	10.0	32
23	An automatic locally-adaptive method to estimate heavily-tailed breakthrough curves from particle distributions. <i>Advances in Water Resources</i> , 2013, 59, 52-65.	3.8	32
24	Assessing the joint impact of DNAPL source-zone behavior and degradation products on the probabilistic characterization of human health risk. <i>Advances in Water Resources</i> , 2016, 88, 124-138.	3.8	27
25	Do we really need a large number of particles to simulate bimolecular reactive transport with random walk methods? A kernel density estimation approach. <i>Journal of Computational Physics</i> , 2015, 303, 95-104.	3.8	23
26	Particle density estimation with grid-projected and boundary-corrected adaptive kernels. <i>Advances in Water Resources</i> , 2019, 131, 103382.	3.8	23
27	Probabilistic analysis of maintenance and operation of artificial recharge ponds. <i>Advances in Water Resources</i> , 2012, 36, 23-35.	3.8	22
28	A random walk solution for modeling solute transport with network reactions and multi-rate mass transfer in heterogeneous systems: Impact of biofilms. <i>Advances in Water Resources</i> , 2015, 86, 119-132.	3.8	22
29	A quick and inexpensive method to quantify spatially variable infiltration capacity for artificial recharge ponds using photographic images. <i>Journal of Hydrology</i> , 2012, 430-431, 118-126.	5.4	21
30	Lagrangian Modeling of Reactive Transport in Heterogeneous Porous Media With an Automatic Locally Adaptive Particle Support Volume. <i>Water Resources Research</i> , 2018, 54, 8309-8331.	4.2	21
31	A Bayesian approach to integrate temporal data into probabilistic risk analysis of monitored NAPL remediation. <i>Advances in Water Resources</i> , 2012, 36, 108-120.	3.8	18
32	On the formation of multiple local peaks in breakthrough curves. <i>Water Resources Research</i> , 2015, 51, 2128-2152.	4.2	16
33	Mixing induced reactive transport in fractured crystalline rocks. <i>Applied Geochemistry</i> , 2012, 27, 479-489.	3.0	15
34	Combining physical-based models and satellite images for the spatio-temporal assessment of soil infiltration capacity. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 1065-1075.	4.0	13
35	Improving the accuracy of risk prediction from particle-based breakthrough curves reconstructed with kernel density estimators. <i>Water Resources Research</i> , 2015, 51, 4574-4591.	4.2	13
36	A mechanistic model (BCC-PSSICO) to predict changes in the hydraulic properties for bioamended variably saturated soils. <i>Water Resources Research</i> , 2017, 53, 93-109.	4.2	13

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37	Estimating hydraulic conductivity of the Opalinus Clay at the regional scale: Combined effect of desaturation and EDZ. <i>Physics and Chemistry of the Earth</i> , 2007, 32, 639-645.	2.9	12
38	Lagrangian Modeling of Mixing-Limited Reactive Transport in Porous Media: Multirate Interaction by Exchange With the Mean. <i>Water Resources Research</i> , 2020, 56, e2019WR026993.	4.2	12
39	Controlling scaling metrics for improved characterization of well-head protection regions. <i>Journal of Hydrology</i> , 2013, 494, 107-115.	5.4	9
40	Generalizing Agarwal's Method for the Interpretation of Recovery Tests Under Non-Ideal Conditions. <i>Water Resources Research</i> , 2018, 54, 6393-6407.	4.2	9
41	Enhanced NAPL Removal and Mixing With Engineered Injection and Extraction. <i>Water Resources Research</i> , 2022, 58, .	4.2	8
42	Dynamic interactions between hydrogeological and exposure parameters in daily dose prediction under uncertainty and temporal variability. <i>Journal of Hazardous Materials</i> , 2013, 263, 197-206.	12.4	7
43	An analytical solution to study substrate-microbial dynamics in soils. <i>Advances in Water Resources</i> , 2013, 54, 181-190.	3.8	7
44	A Closer Look: High-Resolution Pore-Scale Simulations of Solute Transport and Mixing Through Porous Media Columns. <i>Transport in Porous Media</i> , 2023, 146, 85-111.	2.6	7
45	Random-Walk Modeling of Reactive Transport in Porous Media With a Reduced-Order Chemical Basis of Conservative Components. <i>Water Resources Research</i> , 2021, 57, e2020WR028679.	4.2	6
46	Solute transport in bounded porous media characterized by generalized sub-Gaussian log-conductivity distributions. <i>Advances in Water Resources</i> , 2021, 147, 103812.	3.8	5
47	Automatic Calibration of Groundwater Models With Bias Correction and Data Filtering: Working With Drawdown Data. <i>Water Resources Research</i> , 2021, 57, e2020WR028097.	4.2	3
48	Combined simulation and optimization framework for irrigation scheduling in agriculture fields. <i>Irrigation Science</i> , 0, , 1.	2.8	3
49	The Worth of Stochastic Inversion for Identifying Connectivity by Means of a Long-Lasting Large-Scale Hydraulic Test: The Salar de Atacama Case Study. <i>Water Resources Research</i> , 2022, 58, .	4.2	3