Felipe P J De Barros

List of Publications by Year
in descending order

39	879	471509 17	501196 28
papers	citations	h-index	g-index

39	39	39	684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving the computational efficiency of first arrival time uncertainty estimation using a connectivity-based ranking Monte Carlo method. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1039-1049.	4.0	5
2	Application of genetic programming for model-free identification of nonlinear multi-physics systems. Nonlinear Dynamics, 2021, 104, 1781-1800.	5.2	8
3	On the Maximum Concentration of Contaminants in Natural Aquifers. Transport in Porous Media, 2021, 140, 273-290.	2.6	5
4	Estimating Dispersion Coefficient in Flow Through Heterogeneous Porous Media by a Deep Convolutional Neural Network. Geophysical Research Letters, 2021, 48, e2021GL094443.	4.0	9
5	Transport analysis in deformable porous media through integral transforms. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 307-324.	3.3	11
6	Spatiotemporal Dynamics of Nitrous Oxide Emission Hotspots in Heterogeneous Riparian Sediments. Water Resources Research, 2021, 57, e2021WR030496.	4.2	9
7	Temporal flow variations interact with spatial physical heterogeneity to impact solute transport in managed river corridors. Journal of Contaminant Hydrology, 2020, 235, 103713.	3.3	7
8	Dilution enhancement in hierarchical and multiscale heterogeneous sediments. Journal of Hydrology, 2020, 587, 125025.	5.4	15
9	Resilience of groundwater systems in the presence of Bisphenol A under uncertainty. Science of the Total Environment, 2020, 727, 138363.	8.0	6
10	Characterizing the Influence of Multiple Uncertainties on Predictions of Contaminant Discharge in Groundwater Within a Lagrangian Stochastic Formulation. Water Resources Research, 2020, 56, e2020WR027867.	4.2	9
11	Minimum Hydraulic Resistance Uncertainty and the Development of a Connectivityâ€Based Iterative Sampling Strategy. Water Resources Research, 2019, 55, 5593-5611.	4.2	7
12	Climate change impact on residual contaminants under sustainable remediation. Journal of Contaminant Hydrology, 2019, 226, 103518.	3.3	17
13	Improving the Efficiency of 3â€D Hydrogeological Mixers: Dilution Enhancement Via Coupled Engineeringâ€Induced Transient Flows and Spatial Heterogeneity. Water Resources Research, 2018, 54, 2095-2111.	4.2	20
14	Adaptive POD model reduction for solute transport in heterogeneous porous media. Computational Geosciences, 2018, 22, 297-308.	2.4	8
15	Fluid deformation in random steady three-dimensional flow. Journal of Fluid Mechanics, 2018, 855, 770-803.	3.4	8
16	Hydraulic fracturing and the environment: risk assessment for groundwater contamination from well casing failure. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1527-1542.	4.0	21
17	Uncertainty quantification of environmental performance metrics in heterogeneous aquifers with long-range correlations. Journal of Contaminant Hydrology, 2017, 196, 21-29.	3.3	15
18	Solute concentration at a well in non-Gaussian aquifers under constant and time-varying pumping schedule. Journal of Contaminant Hydrology, 2017, 205, 37-46.	3.3	10

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19	Minimum Hydraulic Resistance and Least Resistance Path in Heterogeneous Porous Media. Water Resources Research, 2017, 53, 8596-8613.	4.2	39
20	Radial solute transport in highly heterogeneous aquifers: Modeling and experimental comparison. Water Resources Research, 2017, 53, 5725-5741.	4.2	8
21	Effects of the hydraulic conductivity microstructure on macrodispersivity. Water Resources Research, 2016, 52, 6818-6832.	4.2	17
22	Coupled continuous-time random walks for fluid stretching in two-dimensional heterogeneous media. Physical Review E, 2016, 94, 061102.	2.1	22
23	Vertical dispersion in vegetated shear flows. Water Resources Research, 2016, 52, 8066-8080.	4.2	37
24	Mixing-scale dependent dispersion for transport in heterogeneous flows. Journal of Fluid Mechanics, 2015, 777, 178-195.	3.4	28
25	Scaling forms of particle densities for LÃ©vy walks and strong anomalous diffusion. Physical Review E, 2015, 92, 032128.	2.1	15
26	Assessing the Groundwater Contamination Potential from a Well in a Hydraulic Fracturing Operation. Journal of Sustainable Energy Engineering, 2015, 3, 66-79.	0.3	4
27	Probabilistic human health risk assessment of degradationâ€related chemical mixtures in heterogeneous aquifers: Risk statistics, hot spots, and preferential channels. Water Resources Research, 2015, 51, 4086-4108.	4.2	40
28	Dispersion variance for transport in heterogeneous porous media. Water Resources Research, 2013, 49, 3443-3461.	4.2	13
29	A hypothesisâ€driven approach to optimize field campaigns. Water Resources Research, 2012, 48, .	4.2	44
30	Flow topology and scalar mixing in spatially heterogeneous flow fields. Geophysical Research Letters, 2012, 39, .	4.0	100
31	Stochastic evaluation of mixing-controlled steady-state plume lengths in two-dimensional heterogeneous domains. Journal of Contaminant Hydrology, 2012, 138-139, 22-39.	3.3	45
32	A divide and conquer approach to cope with uncertainty, human health risk, and decision making in contaminant hydrology. Water Resources Research, 2011, 47, .	4.2	29
33	Stochastic fluxâ€related analysis of transverse mixing in twoâ€dimensional heterogeneous porous media. Water Resources Research, 2011, 47, .	4.2	66
34	Probability density function of steady state concentration in twoâ€dimensional heterogeneous porous media. Water Resources Research, 2011, 47, .	4.2	19
35	Modelling of block-scale macrodispersion as a random function. Journal of Fluid Mechanics, 2011, 676, 514-545.	3.4	35
36	On the link between contaminant source release conditions and plume prediction uncertainty. Journal of Contaminant Hydrology, 2010, 116, 24-34.	3.3	38

#	Article	IF	Citations
37	An indirect assessment on the impact of connectivity of conductivity classes upon longitudinal asymptotic macrodispersivity. Water Resources Research, 2010, 46, .	4.2	31
38	The concept of comparative information yield curves and its application to riskâ€based site characterization. Water Resources Research, 2009, 45, .	4.2	58
39	VisU-HydRA: A Computational Toolbox for Groundwater Contaminant Transport to Support Risk-Based Decision Making. Frontiers in Earth Science, 0, 10, .	1.8	1