

Felipe P J De Barros

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

879
citations

471509

17
h-index

501196

28
g-index

39
all docs

39
docs citations

39
times ranked

684
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow topology and scalar mixing in spatially heterogeneous flow fields. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	100
2	Stochastic flux-related analysis of transverse mixing in two-dimensional heterogeneous porous media. <i>Water Resources Research</i> , 2011, 47, .	4.2	66
3	The concept of comparative information yield curves and its application to risk-based site characterization. <i>Water Resources Research</i> , 2009, 45, .	4.2	58
4	Stochastic evaluation of mixing-controlled steady-state plume lengths in two-dimensional heterogeneous domains. <i>Journal of Contaminant Hydrology</i> , 2012, 138-139, 22-39.	3.3	45
5	A hypothesis-driven approach to optimize field campaigns. <i>Water Resources Research</i> , 2012, 48, .	4.2	44
6	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
7	Minimum Hydraulic Resistance and Least Resistance Path in Heterogeneous Porous Media. <i>Water Resources Research</i> , 2017, 53, 8596-8613.	4.2	39
8	On the link between contaminant source release conditions and plume prediction uncertainty. <i>Journal of Contaminant Hydrology</i> , 2010, 116, 24-34.	3.3	38
9	Vertical dispersion in vegetated shear flows. <i>Water Resources Research</i> , 2016, 52, 8066-8080.	4.2	37
10	Modelling of block-scale macrodispersion as a random function. <i>Journal of Fluid Mechanics</i> , 2011, 676, 514-545.	3.4	35
11	An indirect assessment on the impact of connectivity of conductivity classes upon longitudinal asymptotic macrodispersivity. <i>Water Resources Research</i> , 2010, 46, .	4.2	31
12	A divide and conquer approach to cope with uncertainty, human health risk, and decision making in contaminant hydrology. <i>Water Resources Research</i> , 2011, 47, .	4.2	29
13	Mixing-scale dependent dispersion for transport in heterogeneous flows. <i>Journal of Fluid Mechanics</i> , 2015, 777, 178-195.	3.4	28
14	Coupled continuous-time random walks for fluid stretching in two-dimensional heterogeneous media. <i>Physical Review E</i> , 2016, 94, 061102.	2.1	22
15	Hydraulic fracturing and the environment: risk assessment for groundwater contamination from well casing failure. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 1527-1542.	4.0	21
16	Improving the Efficiency of 3D Hydrogeological Mixers: Dilution Enhancement Via Coupled Engineering-Induced Transient Flows and Spatial Heterogeneity. <i>Water Resources Research</i> , 2018, 54, 2095-2111.	4.2	20
17	Probability density function of steady state concentration in two-dimensional heterogeneous porous media. <i>Water Resources Research</i> , 2011, 47, .	4.2	19
18	Effects of the hydraulic conductivity microstructure on macrodispersivity. <i>Water Resources Research</i> , 2016, 52, 6818-6832.	4.2	17

#	ARTICLE	IF	CITATIONS
19	Climate change impact on residual contaminants under sustainable remediation. <i>Journal of Contaminant Hydrology</i> , 2019, 226, 103518.	3.3	17
20	Scaling forms of particle densities for Lévy walks and strong anomalous diffusion. <i>Physical Review E</i> , 2015, 92, 032128.	2.1	15
21	Uncertainty quantification of environmental performance metrics in heterogeneous aquifers with long-range correlations. <i>Journal of Contaminant Hydrology</i> , 2017, 196, 21-29.	3.3	15
22	Dilution enhancement in hierarchical and multiscale heterogeneous sediments. <i>Journal of Hydrology</i> , 2020, 587, 125025.	5.4	15
23	Dispersion variance for transport in heterogeneous porous media. <i>Water Resources Research</i> , 2013, 49, 3443-3461.	4.2	13
24	Transport analysis in deformable porous media through integral transforms. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 307-324.	3.3	11
25	Solute concentration at a well in non-Gaussian aquifers under constant and time-varying pumping schedule. <i>Journal of Contaminant Hydrology</i> , 2017, 205, 37-46.	3.3	10
26	Estimating Dispersion Coefficient in Flow Through Heterogeneous Porous Media by a Deep Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094443.	4.0	9
27	Characterizing the Influence of Multiple Uncertainties on Predictions of Contaminant Discharge in Groundwater Within a Lagrangian Stochastic Formulation. <i>Water Resources Research</i> , 2020, 56, e2020WR027867.	4.2	9
28	Spatiotemporal Dynamics of Nitrous Oxide Emission Hotspots in Heterogeneous Riparian Sediments. <i>Water Resources Research</i> , 2021, 57, e2021WR030496.	4.2	9
29	Radial solute transport in highly heterogeneous aquifers: Modeling and experimental comparison. <i>Water Resources Research</i> , 2017, 53, 5725-5741.	4.2	8
30	Adaptive POD model reduction for solute transport in heterogeneous porous media. <i>Computational Geosciences</i> , 2018, 22, 297-308.	2.4	8
31	Fluid deformation in random steady three-dimensional flow. <i>Journal of Fluid Mechanics</i> , 2018, 855, 770-803.	3.4	8
32	Application of genetic programming for model-free identification of nonlinear multi-physics systems. <i>Nonlinear Dynamics</i> , 2021, 104, 1781-1800.	5.2	8
33	Minimum Hydraulic Resistance Uncertainty and the Development of a Connectivity-Based Iterative Sampling Strategy. <i>Water Resources Research</i> , 2019, 55, 5593-5611.	4.2	7
34	Temporal flow variations interact with spatial physical heterogeneity to impact solute transport in managed river corridors. <i>Journal of Contaminant Hydrology</i> , 2020, 235, 103713.	3.3	7
35	Resilience of groundwater systems in the presence of Bisphenol A under uncertainty. <i>Science of the Total Environment</i> , 2020, 727, 138363.	8.0	6
36	Improving the computational efficiency of first arrival time uncertainty estimation using a connectivity-based ranking Monte Carlo method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 1039-1049.	4.0	5

#	ARTICLE	IF	CITATIONS
37	On the Maximum Concentration of Contaminants in Natural Aquifers. Transport in Porous Media, 2021, 140, 273-290.	2.6	5
38	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
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