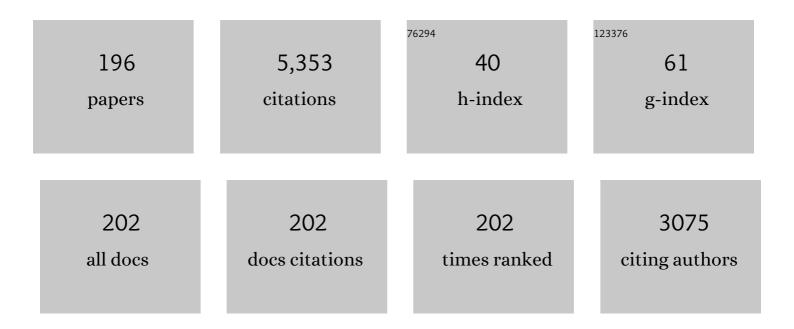
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Representative hydraulic conductivities in saturated groundwater flow. Reviews of Geophysics, 2006, 44, .	9.0	235
2	A procedure for the solution of multicomponent reactive transport problems. Water Resources Research, 2005, 41, .	1.7	156
3	A comparison of seven methods for the inverse modelling of groundwater flow. Application to the characterisation of well catchments. Advances in Water Resources, 2009, 32, 851-872.	1.7	154
4	Nonlocal and localized analyses of conditional mean steady state flow in bounded, randomly nonuniform domains: 1. Theory and computational approach. Water Resources Research, 1999, 35, 2999-3018.	1.7	145
5	Convergence assessment of numerical Monte Carlo simulations in groundwater hydrology. Water Resources Research, 2004, 40, .	1.7	133
6	Origins of anomalous transport in heterogeneous media: Structural and dynamic controls. Water Resources Research, 2014, 50, 1490-1505.	1.7	128
7	Automatic method for estimation of in situ effective contact angle from X-ray micro tomography images of two-phase flow in porous media. Journal of Colloid and Interface Science, 2017, 496, 51-59.	5.0	123
8	Nonlocal and localized analyses of conditional mean steady state flow in bounded, randomly nonuniform domains: 2. Computational examples. Water Resources Research, 1999, 35, 3019-3039.	1.7	93
9	Non-local and localized analyses of non-reactive solute transport in bounded randomly heterogeneous porous media: Theoretical framework. Advances in Water Resources, 2006, 29, 1238-1255.	1.7	88
10	Moment Differential Equations for Flow in Highly Heterogeneous Porous Media. Surveys in Geophysics, 2003, 24, 81-106.	2.1	83
11	Relative importance of geostatistical and transport models in describing heavily tailed breakthrough curves at the Lauswiesen site. Journal of Contaminant Hydrology, 2008, 101, 1-13.	1.6	83
12	Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation. Water Resources Research, 2010, 46, .	1.7	74
13	Polynomial chaos expansion for global sensitivity analysis applied to a model of radionuclide migration in a randomly heterogeneous aquifer. Stochastic Environmental Research and Risk Assessment, 2013, 27, 945-954.	1.9	74
14	Use of global sensitivity analysis and polynomial chaos expansion for interpretation of nonreactive transport experiments in laboratoryâ€scale porous media. Water Resources Research, 2011, 47, .	1.7	72
15	Global sensitivity analysis through polynomial chaos expansion of a basin-scale geochemical compaction model. Computational Geosciences, 2013, 17, 25-42.	1.2	71
16	Inverse stochastic moment analysis of steady state flow in randomly heterogeneous media. Water Resources Research, 2006, 42, .	1.7	67
17	Natural background levels and threshold values of chemical species in three large-scale groundwater bodies in Northern Italy. Science of the Total Environment, 2012, 425, 9-19.	3.9	67
18	Probabilistic study of well capture zones distribution at the Lauswiesen field site. Journal of Contaminant Hydrology, 2006, 88, 92-118.	1.6	65

#	Article	IF	CITATIONS
19	Variable-density flow in porous media. Journal of Fluid Mechanics, 2006, 561, 209.	1.4	63
20	Interactions between a rectangular cylinder and a free-surface flow. Journal of Fluids and Structures, 2007, 23, 1137-1148.	1.5	63
21	Probabilistic estimation of well catchments in heterogeneous aquifers. Journal of Hydrology, 1996, 174, 149-171.	2.3	61
22	Radial Flow in a Bounded Randomly Heterogeneous Aquifer. Transport in Porous Media, 2001, 45, 139-193.	1.2	60
23	Conditioning mean steady state flow on hydraulic head and conductivity through geostatistical inversion. Stochastic Environmental Research and Risk Assessment, 2003, 17, 329-338.	1.9	59
24	Type-curve estimation of statistical heterogeneity. Water Resources Research, 2004, 40, .	1.7	59
25	A kriging approach based on Aitchison geometry for the characterization of particle-size curves in heterogeneous aquifers. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1835-1851.	1.9	58
26	Time-Related Capture Zones for Contaminants in Randomly Heterogeneous Formations. Ground Water, 1999, 37, 253-260.	0.7	56
27	Subsurface characterization with support vector machines. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 47-57.	2.7	56
28	Type curve interpretation of lateâ€ŧime pumping test data in randomly heterogeneous aquifers. Water Resources Research, 2007, 43, .	1.7	56
29	Experimental and modeling investigation of multicomponent reactive transport in porous media. Journal of Contaminant Hydrology, 2011, 120-121, 27-44.	1.6	56
30	Moment-based metrics for global sensitivity analysis of hydrological systems. Hydrology and Earth System Sciences, 2017, 21, 6219-6234.	1.9	55
31	Upscaling solute transport in porous media in the presence of an irreversible bimolecular reaction. Advances in Water Resources, 2012, 35, 151-162.	1.7	54
32	Relationship between pore size and velocity probability distributions in stochastically generated porous media. Physical Review E, 2014, 89, 013018.	0.8	53
33	Stochastic averaging of nonlinear flows in heterogeneous porous media. Journal of Fluid Mechanics, 2003, 492, 47-62.	1.4	49
34	Anti-correlated Porosity–Permeability Changes During the Dissolution of Carbonate Rocks: Experimental Evidences and Modeling. Transport in Porous Media, 2015, 107, 595-621.	1.2	48
35	Nonlocal and localized analyses of nonreactive solute transport in bounded randomly heterogeneous porous media: Computational analysis. Advances in Water Resources, 2006, 29, 1399-1418.	1.7	47
36	Numerical investigation of pore and continuum scale formulations of bimolecular reactive transport in porous media. Advances in Water Resources, 2013, 62, 243-253.	1.7	46

#	Article	IF	CITATIONS
37	Numerical solutions of moment equations for flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 13-1-13-8.	1.7	44
38	Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media. Water Resources Research, 2004, 40, .	1.7	43
39	Arsenic release from deep natural solid matrices under experimentally controlled redox conditions. Science of the Total Environment, 2013, 444, 231-240.	3.9	43
40	On the geostatistical characterization of hierarchical media. Water Resources Research, 2008, 44, .	1.7	42
41	Probabilistic reconstruction of geologic facies. Journal of Hydrology, 2004, 294, 57-67.	2.3	41
42	Data assimilation and parameter estimation via ensemble Kalman filter coupled with stochastic moment equations of transient groundwater flow. Water Resources Research, 2013, 49, 1334-1344.	1.7	41
43	Three-dimensional steady state flow to a well in a randomly heterogeneous bounded aquifer. Water Resources Research, 2003, 39, .	1.7	40
44	Unsaturated flow in heterogeneous soils with spatially distributed uncertain hydraulic parameters. Journal of Hydrology, 2003, 275, 182-193.	2.3	38
45	Multimodel <scp>B</scp> ayesian analysis of groundwater data worth. Water Resources Research, 2014, 50, 8481-8496.	1.7	38
46	Global sensitivity analyses of multiple conceptual models with uncertain parameters driving groundwater flow in a regional-scale sedimentary aquifer. Journal of Hydrology, 2019, 574, 544-556.	2.3	37
47	Conditional Probability Density Functions ofÂConcentrations forÂMixing-Controlled ReactiveÂTransport inÂHeterogeneous Aquifers. Mathematical Geosciences, 2009, 41, 323-351.	1.4	36
48	Sub-Gaussian model of processes with heavy-tailed distributions applied to air permeabilities of fractured tuff. Stochastic Environmental Research and Risk Assessment, 2013, 27, 195-207.	1.9	35
49	Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. Journal of Computational Physics, 2006, 217, 166-175.	1.9	33
50	Reaction rates and effective parameters in stratified aquifers. Advances in Water Resources, 2008, 31, 1364-1376.	1.7	33
51	Continuumâ€scale characterization of solute transport based on poreâ€scale velocity distributions. Geophysical Research Letters, 2015, 42, 7537-7545.	1.5	33
52	Geostatistical multimodel approach for the assessment of the spatial distribution of natural background concentrations in large-scale groundwater bodies. Water Research, 2019, 149, 522-532.	5.3	33
53	Inverse analysis of stochastic moment equations for transient flow in randomly heterogeneous media. Advances in Water Resources, 2009, 32, 1495-1507.	1.7	32
54	Data-worth analysis through probabilistic collocation-based Ensemble Kalman Filter. Journal of Hydrology, 2016, 540, 488-503.	2.3	32

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55	Influence of pumping operational schedule on solute concentrations at a well in randomly heterogeneous aquifers. Journal of Hydrology, 2017, 546, 490-502.	2.3	32
56	Probabilistic assessment of seawater intrusion under multiple sources of uncertainty. Advances in Water Resources, 2015, 75, 93-104.	1.7	31
57	Effects of uncertainty of lithofacies, conductivity and porosity distributions on stochastic interpretations of a field scale tracer test. Stochastic Environmental Research and Risk Assessment, 2010, 24, 955-970.	1.9	29
58	POD-based Monte Carlo approach for the solution of regional scale groundwater flow driven by randomly distributed recharge. Advances in Water Resources, 2011, 34, 1450-1463.	1.7	29
59	Joint inversion of steady-state hydrologic and self-potential data for 3D hydraulic conductivity distribution at the Boise Hydrogeophysical Research Site. Journal of Hydrology, 2011, 407, 115-128.	2.3	29
60	Extended power-law scaling of air permeabilities measured on a block of tuff. Hydrology and Earth System Sciences, 2012, 16, 29-42.	1.9	29
61	Numerical investigation of apparent multifractality of samples from processes subordinated to truncated fBm. Hydrological Processes, 2012, 26, 2894-2908.	1.1	29
62	Comparative analysis of formulations for conservative transport in porous media through sensitivity-based parameter calibration. Water Resources Research, 2013, 49, 5206-5220.	1.7	29
63	Delineation of Source Protection Zones Using Statistical Methods. Water Resources Management, 2005, 19, 163-185.	1.9	28
64	Comparison of Ensemble Kalman Filter groundwater-data assimilation methods based on stochastic moment equations and Monte Carlo simulation. Advances in Water Resources, 2014, 66, 8-18.	1.7	28
65	Upscaling thermal conductivities of sedimentary formations for geothermal exploration. Geothermics, 2015, 58, 49-61.	1.5	28
66	Time-related capture zones for radial flow in two dimensional randomly heterogeneous media. Stochastic Environmental Research and Risk Assessment, 1999, 13, 217-230.	1.9	27
67	Anisotropic statistical scaling of soil and sediment texture in a stratified deep vadose zone near Maricopa, Arizona. Geoderma, 2014, 214-215, 217-227.	2.3	26
68	EnKF coupled with groundwater flow moment equations applied to Lauswiesen aquifer, Germany. Journal of Hydrology, 2015, 521, 205-216.	2.3	26
69	Characterization of two- and three-phase relative permeability of water-wet porous media through X-Ray saturation measurements. Journal of Petroleum Science and Engineering, 2016, 145, 453-463.	2.1	26
70	Anisotropic Scaling of Berea Sandstone Log Air Permeability Statistics. Vadose Zone Journal, 2013, 12, 1-15.	1.3	25
71	New scaling model for variables and increments with heavyâ€ŧailed distributions. Water Resources Research, 2015, 51, 4623-4634.	1.7	25
72	A Class-Kriging Predictor for Functional Compositions with Application to Particle-Size Curves in Heterogeneous Aquifers. Mathematical Geosciences, 2016, 48, 463-485.	1.4	25

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73	Stochastic simulation of soil particleâ€size curves in heterogeneous aquifer systems through a Bayes space approach. Water Resources Research, 2016, 52, 5708-5726.	1.7	25
74	A Novel Enhanced-Oil-Recovery Screening Approach Based on Bayesian Clustering and Principal-Component Analysis. SPE Reservoir Evaluation and Engineering, 2016, 19, 382-390.	1.1	25
75	Random domain decomposition for flow in heterogeneous stratified aquifers. Stochastic Environmental Research and Risk Assessment, 2003, 17, 394-407.	1.9	24
76	Reactive transport in disordered media: Role of fluctuations in interpretation of laboratory experiments. Advances in Water Resources, 2013, 51, 86-103.	1.7	23
77	Anisotropic statistical scaling of vadose zone hydraulic property estimates near Maricopa, Arizona. Water Resources Research, 2013, 49, 8463-8479.	1.7	23
78	Title is missing!. Transport in Porous Media, 2001, 42, 37-67.	1.2	22
79	Multimodel framework for characterization of transport in porous media. Water Resources Research, 2015, 51, 3384-3402.	1.7	22
80	Inverse modeling of unsaturated flow using clusters of soil texture and pedotransfer functions. Water Resources Research, 2016, 52, 7631-7644.	1.7	22
81	Uncertainty Quantification and Global Sensitivity Analysis of Subsurface Flow Parameters to Gravimetric Variations During Pumping Tests in Unconfined Aquifers. Water Resources Research, 2018, 54, 501-518.	1.7	22
82	Characterization of the Hydrogeological Experimental Site of Poitiers (France) by stochastic well testing analysis. Journal of Hydrology, 2009, 369, 154-164.	2.3	21
83	Interpretation of two-phase relative permeability curves through multiple formulations and Model Quality criteria. Journal of Petroleum Science and Engineering, 2015, 135, 738-749.	2.1	21
84	Analysis of the performance of a crude-oil desalting system based on historical data. Fuel, 2021, 291, 120046.	3.4	21
85	Theoretical analysis and field evidence of reciprocity gaps during interference pumping tests. Advances in Water Resources, 2011, 34, 592-606.	1.7	20
86	Upscaling solute transport in porous media from the pore scale to dual―and multicontinuum formulations. Water Resources Research, 2013, 49, 2025-2039.	1.7	20
87	Title is missing!. Transport in Porous Media, 2002, 49, 41-58.	1.2	19
88	Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows. Journal of Contaminant Hydrology, 2006, 82, 23-43.	1.6	19
89	Recent advances in scalable non-Gaussian geostatistics: The generalized sub-Gaussian model. Journal of Hydrology, 2018, 562, 685-691.	2.3	19
90	Assessment of uncertainty associated with the estimation of well catchments by moment equations. Advances in Water Resources, 2006, 29, 676-691.	1.7	18

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91	Detecting the vulnerability of groundwater in semi-confined aquifers using barometric response functions. Journal of Hydrology, 2015, 520, 143-156.	2.3	18
92	Prediction of three-phase oil relative permeability through a sigmoid-based model. Journal of Petroleum Science and Engineering, 2015, 126, 190-200.	2.1	18
93	Characterization of Bimolecular Reactive Transport in Heterogeneous Porous Media. Transport in Porous Media, 2016, 115, 291-310.	1.2	18
94	Extended power-law scaling of self-affine signals exhibiting apparent multifractality. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	17
95	Quantitative comparison of impeller-flowmeter and particle-size-distribution techniques for the characterization of hydraulic conductivity variability. Hydrogeology Journal, 2011, 19, 603-612.	0.9	17
96	Estimation of Single-Metal and Competitive Sorption Isotherms through Maximum Likelihood and Model Quality Criteria. Soil Science Society of America Journal, 2012, 76, 1229-1245.	1.2	17
97	Uncertainty Quantification in Scaleâ€Dependent Models of Flow in Porous Media. Water Resources Research, 2017, 53, 9392-9401.	1.7	17
98	Influence of capillary end effects on steady-state relative permeability estimates from direct pore-scale simulations. Physics of Fluids, 2017, 29, .	1.6	17
99	Hysteresis effects of three-phase relative permeabilities on black-oil reservoir simulation under WAG injection protocols. Journal of Petroleum Science and Engineering, 2019, 176, 1161-1174.	2.1	17
100	Global Sensitivity Analysis for Multiple Interpretive Models With Uncertain Parameters. Water Resources Research, 2020, 56, e2019WR025754.	1.7	17
101	Travel time and trajectory moments of conservative solutes in three dimensional heterogeneous porous media under mean uniform flow. Advances in Water Resources, 2005, 28, 429-439.	1.7	16
102	A solution for multicomponent reactive transport under equilibrium and kinetic reactions. Water Resources Research, 2010, 46, .	1.7	16
103	Statistical scaling of pore-scale Lagrangian velocities in natural porous media. Physical Review E, 2014, 90, 023013.	0.8	16
104	Impact of two geostatistical hydro-facies simulation strategies on head statistics under non-uniform groundwater flow. Journal of Hydrology, 2014, 508, 343-355.	2.3	16
105	Theoretical analysis of nonâ€ <scp>G</scp> aussian heterogeneity effects on subsurface flow and transport. Water Resources Research, 2017, 53, 2998-3012.	1.7	16
106	Extended power-law scaling of heavy-tailed random air-permeability fields in fractured and sedimentary rocks. Hydrology and Earth System Sciences, 2012, 16, 3249-3260.	1.9	15
107	Implications of uncertain bioreactive parameters on a complex reaction network of atrazine biodegradation in soil. Advances in Water Resources, 2018, 121, 263-276.	1.7	15
108	Local and Global Sensitivity Analysis of <i>Cr (VI)</i> Geogenic Leakage Under Uncertain Environmental Conditions. Water Resources Research, 2018, 54, 5785-5802.	1.7	15

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109	Recent Advances in Statistical and Scaling Analysis of Earth and Environmental Variables. , 2013, , 1-25.		14
110	A reduced-order model for Monte Carlo simulations of stochastic groundwater flow. Computational Geosciences, 2014, 18, 157-169.	1.2	14
111	Impact of spaceâ€ŧime mesh adaptation on solute transport modeling in porous media. Water Resources Research, 2015, 51, 1315-1332.	1.7	14
112	Comparative assessment of threeâ€phase oil relative permeability models. Water Resources Research, 2016, 52, 5341-5356.	1.7	14
113	Estimation of spatial covariance of log conductivity from particle size data. Water Resources Research, 2014, 50, 5298-5308.	1.7	13
114	Scalable statistics of correlated random variables and extremes applied to deep borehole porosities. Hydrology and Earth System Sciences, 2015, 19, 729-745.	1.9	13
115	Simulation and analysis of scalable non-Gaussian statistically anisotropic random functions. Journal of Hydrology, 2015, 531, 88-95.	2.3	13
116	Application of a mixing-ratios based formulation to model mixing-driven dissolution experiments. Advances in Water Resources, 2009, 32, 756-766.	1.7	12
117	Statistical Scaling of Geometric Characteristics in Millimeter Scale Natural Porous Media. Transport in Porous Media, 2014, 101, 465-475.	1.2	12
118	Direct numerical simulation of fully saturated flow in natural porous media at the pore scale: a comparison of three computational systems. Computational Geosciences, 2015, 19, 423-437.	1.2	12
119	Theory and generation of conditional, scalable sub-Gaussian random fields. Water Resources Research, 2016, 52, 1746-1761.	1.7	12
120	Probabilistic assessment of spatial heterogeneity of natural background concentrations in large-scale groundwater bodies through Functional Geostatistics. Science of the Total Environment, 2020, 740, 140139.	3.9	12
121	Uncertainty Analysis and Identification of Key Parameters Controlling Bacteria Transport Within a Riverbank Filtration Scenario. Water Resources Research, 2021, 57, e2020WR027911.	1.7	12
122	Short Note: Effective Hydraulic Conductivity and Transmissivity for Heterogeneous Aquifers. Mathematical Geosciences, 2000, 32, 751-759.	0.9	11
123	Nearestâ€neighbor classification for facies delineation. Water Resources Research, 2007, 43, .	1.7	11
124	Stochastic characterization of the Montalto Uffugo research site (Italy) by geostatistical inversion of moment equations of groundwater flow. Journal of Hydrology, 2010, 381, 42-51.	2.3	11
125	Identification of Channeling in Poreâ€6cale Flows. Geophysical Research Letters, 2019, 46, 3270-3278.	1.5	11
126	Mobility and Interaction of Heavy Metals in a Natural Soil. Transport in Porous Media, 2013, 97, 295-315.	1.2	10

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127	Geochemical modeling of arsenic release from a deep natural solid matrix under alternated redox conditions. Environmental Science and Pollution Research, 2014, 21, 1628-1637.	2.7	10
128	Solute concentration at a well in non-Gaussian aquifers under constant and time-varying pumping schedule. Journal of Contaminant Hydrology, 2017, 205, 37-46.	1.6	10
129	Identifiability of parameters of three-phase oil relative permeability models under simultaneous water and gas (SWAG) injection. Journal of Petroleum Science and Engineering, 2017, 159, 942-951.	2.1	10
130	Stochastic inverse modeling and global sensitivity analysis to assist interpretation of drilling mud losses in fractured formations. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1681-1697.	1.9	10
131	Generalized Subâ€Gaussian Processes: Theory and Application to Hydrogeological and Geochemical Data. Water Resources Research, 2020, 56, e2020WR027436.	1.7	10
132	Probabilistic identification of Preferential Groundwater Networks. Journal of Hydrology, 2022, 610, 127906.	2.3	10
133	Controlling scaling metrics for improved characterization of well-head protection regions. Journal of Hydrology, 2013, 494, 107-115.	2.3	9
134	Three-Phase Permeabilities: Upscaling, Analytical Solutions and Uncertainty Analysis in Elementary Pore Structures. Transport in Porous Media, 2015, 106, 259-283.	1.2	9
135	Identification of groundwater flow parameters using reciprocal data from hydraulic interference tests. Journal of Hydrology, 2016, 539, 88-101.	2.3	9
136	Assessment of alternative adsorption models and global sensitivity analysis to characterize hexavalent chromium loss from soil to surface runoff. Hydrological Processes, 2018, 32, 3140-3157.	1.1	9
137	Statistical modeling of gas-permeability spatial variability along a limestone core. Spatial Statistics, 2019, 34, 100249.	0.9	9
138	Formulation and probabilistic assessment of reversible biodegradation pathway of Diclofenac in groundwater. Water Research, 2021, 204, 117466.	5.3	9
139	Predicting vertical connectivity within an aquifer system. Bayesian Analysis, 2010, 5, .	1.6	8
140	On the emergence of reciprocity gaps during interference pumping tests in unconfined aquifers. Advances in Water Resources, 2012, 46, 11-19.	1.7	8
141	On the identification of Dragon Kings among extreme-valued outliers. Nonlinear Processes in Geophysics, 2013, 20, 549-561.	0.6	8
142	Characterization of reciprocity gaps from interference tests in fractured media through a dual porosity model. Water Resources Research, 2016, 52, 1696-1704.	1.7	8
143	An Approach Towards a FEP-based Model for Risk Assessment for Hydraulic Fracturing Operations. Energy Procedia, 2016, 97, 387-394.	1.8	8
144	Effects of Pore-Scale Geometry and Wettability on Two-Phase Relative Permeabilities within Elementary Cells. Water (Switzerland), 2017, 9, 252.	1.2	8

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145	Probabilistic analysis of risk and mitigation of deepwater well blowouts and oil spills. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2647-2666.	1.9	8
146	Adaptive POD model reduction for solute transport in heterogeneous porous media. Computational Geosciences, 2018, 22, 297-308.	1.2	8
147	Effective Properties of Random Composites. SIAM Journal of Scientific Computing, 2004, 26, 625-635.	1.3	7
148	An integrated simulation framework for the performance assessment of radioactive waste repositories. Annals of Nuclear Energy, 2012, 39, 1-8.	0.9	7
149	Interpretation of flowmeter data in heterogeneous layered aquifers. Journal of Hydrology, 2012, 452-453, 76-82.	2.3	7
150	Quantification of CO2 generation in sedimentary basins through carbonate/clays reactions with uncertain thermodynamic parameters. Geochimica Et Cosmochimica Acta, 2017, 213, 198-215.	1.6	7
151	Dimensionality reduction for efficient Bayesian estimation of groundwater flow in strongly heterogeneous aquifers. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2313-2326.	1.9	7
152	Uncertainty quantification of overpressure buildup through inverse modeling of compaction processes in sedimentary basins. Hydrogeology Journal, 2017, 25, 385-403.	0.9	7
153	Data Assimilation in Densityâ€Dependent Subsurface Flows via Localized Iterative Ensemble Kalman Filter. Water Resources Research, 2018, 54, 6259-6281.	1.7	7
154	Stochastic Inverse Modeling and Parametric Uncertainty of Sediment Deposition Processes Across Geologic Time Scales. Mathematical Geosciences, 2021, 53, 1101-1124.	1.4	7
155	Introduction: Stochastic Models of Flow and Transport in Multiple-scale Heterogeneous Porous Media. Journal of Hydrology, 2004, 294, 1-3.	2.3	6
156	Effect of Sorption Heterogeneity on Moments of Solute Residence Time in Convergent Flows. Mathematical Geosciences, 2009, 41, 835-853.	1.4	6
157	Benchmarking numerical codes for tracer transport with the aid of laboratory-scale experiments in 2D heterogeneous porous media. Journal of Contaminant Hydrology, 2018, 212, 55-64.	1.6	6
158	Statistical Characterization of Heterogeneous Dissolution Rates of Calcite from In situ and Real-Time AFM Imaging. Transport in Porous Media, 2021, 140, 291-312.	1.2	6
159	Solute transport in random composite media with uncertain dispersivities. Advances in Water Resources, 2019, 128, 48-58.	1.7	5
160	Integration of moment equations in a reduced-order modeling strategy for Monte Carlo simulations of groundwater flow. Journal of Hydrology, 2020, 590, 125257.	2.3	5
161	Solute transport in bounded porous media characterized by generalized sub-Gaussian log-conductivity distributions. Advances in Water Resources, 2021, 147, 103812.	1.7	5
162	Pore-scale computational analyses of non-Darcy flow through highly porous structures with various degrees of geometrical complexity. Sustainable Energy Technologies and Assessments, 2022, 52, 102048.	1.7	5

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163	Effects of evolving scales of heterogeneity on hydraulic head predictions under convergent flow conditions. Hydrogeology Journal, 2009, 17, 817-825.	0.9	4
164	Analytical expressions for three-phase generalized relative permeabilities in water- and oil-wet capillary tubes. Computational Geosciences, 2016, 20, 555-565.	1.2	4
165	Solute dispersion for stable density-driven flow in randomly heterogeneous porous media. Advances in Water Resources, 2018, 111, 329-345.	1.7	4
166	Grid convergence for numerical solutions of stochastic moment equations of groundwater flow. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1565-1579.	1.9	4
167	Copula density-driven metrics for sensitivity analysis: Theory and application to flow and transport in porous media. Advances in Water Resources, 2020, 145, 103714.	1.7	4
168	Assessment of turbulence effects on effective solute diffusivity close to a sediment-free fluid interface. Stochastic Environmental Research and Risk Assessment, 2020, 34, 2211-2228.	1.9	4
169	Data assimilation with multiple types of observation boreholes via the ensemble Kalman filter embedded within stochastic moment equations. Hydrology and Earth System Sciences, 2021, 25, 1689-1709.	1.9	4
170	Object oriented spatial analysis of natural concentration levels of chemical species in regional-scale aquifers. Spatial Statistics, 2021, 43, 100494.	0.9	4
171	Statistical Description of Calcite Surface Roughness Resulting from Dissolution at Close-to-Equilibrium Conditions. ACS Earth and Space Chemistry, 2021, 5, 3115-3129.	1.2	4
172	New General Analytical Solution for Infiltration Structures Design. Journal of Hydraulic Engineering, 2013, 139, 637-644.	0.7	3
173	Laboratory-scale Investigation of Two-phase Relative Permeability. Procedia Environmental Sciences, 2015, 25, 166-174.	1.3	3
174	Statistical scaling of geometric characteristics in stochastically generated pore microstructures. Computational Geosciences, 2015, 19, 845-854.	1.2	3
175	Integration of Markov mesh models and data assimilation techniques in complex reservoirs. Computational Geosciences, 2016, 20, 637-653.	1.2	3
176	Space-time mesh adaptation for solute transport in randomly heterogeneous porous media. Journal of Contaminant Hydrology, 2018, 212, 28-40.	1.6	3
177	Random walk evaluation of Green's functions for groundwater flow in heterogeneous aquifers. Journal of Hydrology, 2020, 588, 125029.	2.3	3
178	Impact of multiple uncertainties on gravimetric variations across randomly heterogeneous aquifers during pumping. Advances in Water Resources, 2021, 154, 103978.	1.7	3
179	Modeling solute transport and mixing in heterogeneous porous media under turbulent flow conditions. Physics of Fluids, 2021, 33, 106604.	1.6	3
180	Sensitivity Analysis and Quantification of the Role of Governing Transport Mechanisms and Parameters in a Gas Flow Model for Low-Permeability Porous Media. Transport in Porous Media, 2022, 142, 509-530.	1.2	3

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181	Assessment of Hydrological Processes in an Ungauged Catchment in Eritrea. Hydrology, 2022, 9, 68.	1.3	3
182	Quantification of the information content of Darcy fluxes associated with hydraulic conductivity fields evaluated at diverse scales. Advances in Water Resources, 2020, 145, 103730.	1.7	2
183	Combining Two- and Three-Phase Coreflooding Experiments for Reservoir Simulation Under WAG Practices. , 2020, , .		2
184	Natural springs protection and probabilistic risk assessment under uncertain conditions. Science of the Total Environment, 2021, 751, 141430.	3.9	2
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