Alberto Guadagnini

List of Publications by Year
in descending order

196	5,353	76326	123424
papers	citations	40 h-index	61 g-index

202	202	202	3075
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	2.6	3
2	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.	2.7	5
3	Assessment of Hydrological Processes in an Ungauged Catchment in Eritrea. Hydrology, 2022, 9, 68.	3.0	3
4	Probabilistic identification of Preferential Groundwater Networks. Journal of Hydrology, 2022, 610, 127906.	5.4	10
5	Macrodispersion in generalized sub-Gaussian randomly heterogeneous porous media. International Journal of Heat and Mass Transfer, 2022, 195, 123117.	4.8	1
6	Natural springs protection and probabilistic risk assessment under uncertain conditions. Science of the Total Environment, 2021, 751, 141430.	8.0	2
7	Solute transport in bounded porous media characterized by generalized sub-Gaussian log-conductivity distributions. Advances in Water Resources, 2021, 147, 103812.	3.8	5
8	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.	4.9	4
9	Uncertainty Analysis and Identification of Key Parameters Controlling Bacteria Transport Within a Riverbank Filtration Scenario. Water Resources Research, 2021, 57, e2020WR027911.	4.2	12
10	Analysis of the performance of a crude-oil desalting system based on historical data. Fuel, 2021, 291, 120046.	6.4	21
11	Statistical Characterization of Heterogeneous Dissolution Rates of Calcite from In situ and Real-Time AFM Imaging. Transport in Porous Media, 2021, 140, 291-312.	2.6	6
12	Object oriented spatial analysis of natural concentration levels of chemical species in regional-scale aquifers. Spatial Statistics, 2021, 43, 100494.	1.9	4
13	Probabilistic modeling of field-scale CO₂ generation by carbonateâ€“clay reactions in sedimentary basins. Hydrology and Earth System Sciences, 2021, 25, 3539-3553.	4.9	2
14	Impact of multiple uncertainties on gravimetric variations across randomly heterogeneous aquifers during pumping. Advances in Water Resources, 2021, 154, 103978.	3.8	3
15	Formulation and probabilistic assessment of reversible biodegradation pathway of Diclofenac in groundwater. Water Research, 2021, 204, 117466.	11.3	9
16	Modeling solute transport and mixing in heterogeneous porous media under turbulent flow conditions. Physics of Fluids, 2021, 33, 106604.	4.0	3
17	Statistical Description of Calcite Surface Roughness Resulting from Dissolution at Close-to-Equilibrium Conditions. ACS Earth and Space Chemistry, 2021, 5, 3115-3129.	2.7	4
18	Stochastic Inverse Modeling and Parametric Uncertainty of Sediment Deposition Processes Across Geologic Time Scales. Mathematical Geosciences, 2021, 53, 1101-1124.	2.4	7

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19	Feedback mechanisms between precipitation and dissolution reactions across randomly heterogeneous conductivity fields. Hydrology and Earth System Sciences, 2021, 25, 5905-5915.	4.9	2
20	Features of transport in non-Gaussian random porous systems. International Journal of Heat and Mass Transfer, 2021, 184, 122244.	4.8	2
21	Implementation of Three-Phase Black-Oil Reservoir Models Assisted by Micro-Scale Analyses. , 2020, , .		0
22	Copula density-driven metrics for sensitivity analysis: Theory and application to flow and transport in porous media. Advances in Water Resources, 2020, 145, 103714.	3.8	4
23	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.	4.0	4
24	Quantification of the information content of Darcy fluxes associated with hydraulic conductivity fields evaluated at diverse scales. Advances in Water Resources, 2020, 145, 103730.	3.8	2
25	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.	8.0	12
26	Random walk evaluation of Greenâ€™s functions for groundwater flow in heterogeneous aquifers. Journal of Hydrology, 2020, 588, 125029.	5.4	3
27	Integration of moment equations in a reduced-order modeling strategy for Monte Carlo simulations of groundwater flow. Journal of Hydrology, 2020, 590, 125257.	5.4	5
28	Generalized Subâ€Gaussian Processes: Theory and Application to Hydrogeological and Geochemical Data. Water Resources Research, 2020, 56, e2020WR027436.	4.2	10
29	Global Sensitivity Analysis for Multiple Interpretive Models With Uncertain Parameters. Water Resources Research, 2020, 56, e2019WR025754.	4.2	17
30	Combining Two- and Three-Phase Coreflooding Experiments for Reservoir Simulation Under WAG Practices. , 2020, , .		2
31	Interpretation of multi-scale permeability data through an information theory perspective. Hydrology and Earth System Sciences, 2020, 24, 3097-3109.	4.9	2
32	Grid convergence for numerical solutions of stochastic moment equations of groundwater flow. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1565-1579.	4.0	4
33	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.	4.0	10
34	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.	5.4	37
35	Identification of Channeling in Poreâ€Scale Flows. Geophysical Research Letters, 2019, 46, 3270-3278.	4.0	11
36	Solute transport in random composite media with uncertain dispersivities. Advances in Water Resources, 2019, 128, 48-58.	3.8	5

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37	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.	4.2	17
38	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.	11.3	33
39	Statistical modeling of gas-permeability spatial variability along a limestone core. Spatial Statistics, 2019, 34, 100249.	1.9	9
40	Probabilistic analysis of risk and mitigation of deepwater well blowouts and oil spills. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2647-2666.	4.0	8
41	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.	4.2	22
42	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.	3.3	6
43	Space-time mesh adaptation for solute transport in randomly heterogeneous porous media. Journal of Contaminant Hydrology, 2018, 212, 28-40.	3.3	3
44	Solute dispersion for stable density-driven flow in randomly heterogeneous porous media. Advances in Water Resources, 2018, 111, 329-345.	3.8	4
45	Adaptive POD model reduction for solute transport in heterogeneous porous media. Computational Geosciences, 2018, 22, 297-308.	2.4	8
46	Implications of uncertain bioreactive parameters on a complex reaction network of atrazine biodegradation in soil. Advances in Water Resources, 2018, 121, 263-276.	3.8	15
47	Recent advances in scalable non-Gaussian geostatistics: The generalized sub-Gaussian model. Journal of Hydrology, 2018, 562, 685-691.	5.4	19
48	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.	2.6	9
49	Local and Global Sensitivity Analysis of Cr (VI) Geogenic Leakage Under Uncertain Environmental Conditions. Water Resources Research, 2018, 54, 5785-5802.	4.2	15
50	Data Assimilation in Densityâ€Ðependent Subsurface Flows via Localized Iterative Ensemble Kalman Filter. Water Resources Research, 2018, 54, 6259-6281.	4.2	7
51	Influence of pumping operational schedule on solute concentrations at a well in randomly heterogeneous aquifers. Journal of Hydrology, 2017, 546, 490-502.	5.4	32
52	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.	9.4	123
53	Theoretical analysis of nonâ€<scp>G</scp>aussian heterogeneity effects on subsurface flow and transport. Water Resources Research, 2017, 53, 2998-3012.	4.2	16
54	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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55	Uncertainty Quantification in Scaleâ€Dependent Models of Flow in Porous Media. Water Resources Research, 2017, 53, 9392-9401.	4.2	17
56	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.	4.2	10
57	Quantification of CO2 generation in sedimentary basins through carbonate/clays reactions with uncertain thermodynamic parameters. Geochimica Et Cosmochimica Acta, 2017, 213, 198-215.	3.9	7
58	Dimensionality reduction for efficient Bayesian estimation of groundwater flow in strongly heterogeneous aquifers. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2313-2326.	4.0	7
59	Uncertainty quantification of overpressure buildup through inverse modeling of compaction processes in sedimentary basins. Hydrogeology Journal, 2017, 25, 385-403.	2.1	7
60	Influence of capillary end effects on steady-state relative permeability estimates from direct pore-scale simulations. Physics of Fluids, 2017, 29, .	4.0	17
61	Moment-based metrics for global sensitivity analysis of hydrological systems. Hydrology and Earth System Sciences, 2017, 21, 6219-6234.	4.9	55
62	Effects of Pore-Scale Geometry and Wettability on Two-Phase Relative Permeabilities within Elementary Cells. Water (Switzerland), 2017, 9, 252.	2.7	8
63	Characterization of reciprocity gaps from interference tests in fractured media through a dual porosity model. Water Resources Research, 2016, 52, 1696-1704.	4.2	8
64	An Approach Towards a FEP-based Model for Risk Assessment for Hydraulic Fracturing Operations. Energy Procedia, 2016, 97, 387-394.	1.8	8
65	Characterization of Bimolecular Reactive Transport in Heterogeneous Porous Media. Transport in Porous Media, 2016, 115, 291-310.	2.6	18
66	A Class-Kriging Predictor for Functional Compositions with Application to Particle-Size Curves in Heterogeneous Aquifers. Mathematical Geosciences, 2016, 48, 463-485.	2.4	25
67	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.	4.2	26
68	Data-worth analysis through probabilistic collocation-based Ensemble Kalman Filter. Journal of Hydrology, 2016, 540, 488-503.	5.4	32
69	Stochastic simulation of soil particleâ€size curves in heterogeneous aquifer systems through a Bayes space approach. Water Resources Research, 2016, 52, 5708-5726.	4.2	25
70	Inverse modeling of unsaturated flow using clusters of soil texture and pedotransfer functions. Water Resources Research, 2016, 52, 7631-7644.	4.2	22
71	Comparative assessment of threeâ€phase oil relative permeability models. Water Resources Research, 2016, 52, 5341-5356.	4.2	14
72	Theory and generation of conditional, scalable sub-Gaussian random fields. Water Resources Research, 2016, 52, 1746-1761.	4.2	12

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73	Identification of groundwater flow parameters using reciprocal data from hydraulic interference tests. Journal of Hydrology, 2016, 539, 88-101.	5.4	9
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.	1.8	25
75	Geostatistical Analysis of Functional Compositions: Characterization of Soil Particle-Size Curves through the Aitchison Geometry. , 2016, , 65-69.		0
76	Integration of Markov mesh models and data assimilation techniques in complex reservoirs. Computational Geosciences, 2016, 20, 637-653.	2.4	3
77	Analytical expressions for three-phase generalized relative permeabilities in water- and oil-wet capillary tubes. Computational Geosciences, 2016, 20, 555-565.	2.4	4
78	Continuumâ€scale characterization of solute transport based on poreâ€scale velocity distributions. Geophysical Research Letters, 2015, 42, 7537-7545.	4.0	33
79	New scaling model for variables and increments with heavyâ€tailed distributions. Water Resources Research, 2015, 51, 4623-4634.	4.2	25
80	Impact of spaceâ€time mesh adaptation on solute transport modeling in porous media. Water Resources Research, 2015, 51, 1315-1332.	4.2	14
81	Multimodel framework for characterization of transport in porous media. Water Resources Research, 2015, 51, 3384-3402.	4.2	22
82	Laboratory-scale Investigation of Two-phase Relative Permeability. Procedia Environmental Sciences, 2015, 25, 166-174.	1.4	3
83	Scalable statistics of correlated random variables and extremes applied to deep borehole porosities. Hydrology and Earth System Sciences, 2015, 19, 729-745.	4.9	13
84	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.	2.4	12
85	Interpretation of two-phase relative permeability curves through multiple formulations and Model Quality criteria. Journal of Petroleum Science and Engineering, 2015, 135, 738-749.	4.2	21
86	Detecting the vulnerability of groundwater in semi-confined aquifers using barometric response functions. Journal of Hydrology, 2015, 520, 143-156.	5.4	18
87	Anti-correlated Porosityâ€“Permeability Changes During the Dissolution of Carbonate Rocks: Experimental Evidences and Modeling. Transport in Porous Media, 2015, 107, 595-621.	2.6	48
88	Simulation and analysis of scalable non-Gaussian statistically anisotropic random functions. Journal of Hydrology, 2015, 531, 88-95.	5.4	13
89	Upscaling thermal conductivities of sedimentary formations for geothermal exploration. Geothermics, 2015, 58, 49-61.	3.4	28
90	Statistical scaling of geometric characteristics in stochastically generated pore microstructures. Computational Geosciences, 2015, 19, 845-854.	2.4	3

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91	Prediction of three-phase oil relative permeability through a sigmoid-based model. Journal of Petroleum Science and Engineering, 2015, 126, 190-200.	4.2	18
92	EnKF coupled with groundwater flow moment equations applied to Lauswiesen aquifer, Germany. Journal of Hydrology, 2015, 521, 205-216.	5.4	26
93	Probabilistic assessment of seawater intrusion under multiple sources of uncertainty. Advances in Water Resources, 2015, 75, 93-104.	3.8	31
94	Three-Phase Permeabilities: Upscaling, Analytical Solutions and Uncertainty Analysis in Elementary Pore Structures. Transport in Porous Media, 2015, 106, 259-283.	2.6	9
95	Origins of anomalous transport in heterogeneous media: Structural and dynamic controls. Water Resources Research, 2014, 50, 1490-1505.	4.2	128
96	Relationship between pore size and velocity probability distributions in stochastically generated porous media. Physical Review E, 2014, 89, 013018.	2.1	53
97	Statistical scaling of pore-scale Lagrangian velocities in natural porous media. Physical Review E, 2014, 90, 023013.	2.1	16
98	Impact of two geostatistical hydro-facies simulation strategies on head statistics under non-uniform groundwater flow. Journal of Hydrology, 2014, 508, 343-355.	5.4	16
99	A reduced-order model for Monte Carlo simulations of stochastic groundwater flow. Computational Geosciences, 2014, 18, 157-169.	2.4	14
100	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.	4.0	58
101	Geochemical modeling of arsenic release from a deep natural solid matrix under alternated redox conditions. Environmental Science and Pollution Research, 2014, 21, 1628-1637.	5.3	10
102	Statistical Scaling of Geometric Characteristics in Millimeter Scale Natural Porous Media. Transport in Porous Media, 2014, 101, 465-475.	2.6	12
103	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.	3.8	28
104	Anisotropic statistical scaling of soil and sediment texture in a stratified deep vadose zone near Maricopa, Arizona. Geoderma, 2014, 214-215, 217-227.	5.1	26
105	Multimodel <scp>B</scp>ayesian analysis of groundwater data worth. Water Resources Research, 2014, 50, 8481-8496.	4.2	38
106	Estimation of spatial covariance of log conductivity from particle size data. Water Resources Research, 2014, 50, 5298-5308.	4.2	13
107	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.	4.0	74
108	Mobility and Interaction of Heavy Metals in a Natural Soil. Transport in Porous Media, 2013, 97, 295-315.	2.6	10

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109	New General Analytical Solution for Infiltration Structures Design. Journal of Hydraulic Engineering, 2013, 139, 637-644.	1.5	3
110	Numerical investigation of pore and continuum scale formulations of bimolecular reactive transport in porous media. Advances in Water Resources, 2013, 62, 243-253.	3.8	46
111	Reactive transport in disordered media: Role of fluctuations in interpretation of laboratory experiments. Advances in Water Resources, 2013, 51, 86-103.	3.8	23
112	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.	4.0	35
113	Controlling scaling metrics for improved characterization of well-head protection regions. Journal of Hydrology, 2013, 494, 107-115.	5.4	9
114	Arsenic release from deep natural solid matrices under experimentally controlled redox conditions. Science of the Total Environment, 2013, 444, 231-240.	8.0	43
115	Upscaling solute transport in porous media from the pore scale to dualâ€•and multicontinuum formulations. Water Resources Research, 2013, 49, 2025-2039.	4.2	20
116	Recent Advances in Statistical and Scaling Analysis of Earth and Environmental Variables. , 2013, , 1-25.		14
117	Global sensitivity analysis through polynomial chaos expansion of a basin-scale geochemical compaction model. Computational Geosciences, 2013, 17, 25-42.	2.4	71
118	Anisotropic Scaling of Berea Sandstone Log Air Permeability Statistics. Vadose Zone Journal, 2013, 12, 1-15.	2.2	25
119	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.	4.2	41
120	Comparative analysis of formulations for conservative transport in porous media through sensitivity-based parameter calibration. Water Resources Research, 2013, 49, 5206-5220.	4.2	29
121	Anisotropic statistical scaling of vadose zone hydraulic property estimates near Maricopa, Arizona. Water Resources Research, 2013, 49, 8463-8479.	4.2	23
122	On the identification of Dragon Kings among extreme-valued outliers. Nonlinear Processes in Geophysics, 2013, 20, 549-561.	1.3	8
123	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.	2.2	17
124	Upscaling solute transport in porous media in the presence of an irreversible bimolecular reaction. Advances in Water Resources, 2012, 35, 151-162.	3.8	54
125	On the emergence of reciprocity gaps during interference pumping tests in unconfined aquifers. Advances in Water Resources, 2012, 46, 11-19.	3.8	8
126	Extended power-law scaling of air permeabilities measured on a block of tuff. Hydrology and Earth System Sciences, 2012, 16, 29-42.	4.9	29

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127	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.	4.9	15
128	An integrated simulation framework for the performance assessment of radioactive waste repositories. Annals of Nuclear Energy, 2012, 39, 1-8.	1.8	7
129	Nominal Range Sensitivity Analysis of peak radionuclide concentrations in randomly heterogeneous aquifers. Annals of Nuclear Energy, 2012, 47, 166-172.	1.8	1
130	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.	8.0	67
131	Interpretation of flowmeter data in heterogeneous layered aquifers. Journal of Hydrology, 2012, 452-453, 76-82.	5.4	7
132	Numerical investigation of apparent multifractality of samples from processes subordinated to truncated fBm. Hydrological Processes, 2012, 26, 2894-2908.	2.6	29
133	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, .	4.2	72
134	Extended power-law scaling of self-affine signals exhibiting apparent multifractality. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
135	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.	3.8	29
136	Experimental and modeling investigation of multicomponent reactive transport in porous media. Journal of Contaminant Hydrology, 2011, 120-121, 27-44.	3.3	56
137	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.	5.4	29
138	Quantitative comparison of impeller-flowmeter and particle-size-distribution techniques for the characterization of hydraulic conductivity variability. Hydrogeology Journal, 2011, 19, 603-612.	2.1	17
139	Theoretical analysis and field evidence of reciprocity gaps during interference pumping tests. Advances in Water Resources, 2011, 34, 592-606.	3.8	20
140	Predicting vertical connectivity within an aquifer system. Bayesian Analysis, 2010, 5, .	3.0	8
141	Uncertainty quantification in modeling flow and transport in porous media. Stochastic Environmental Research and Risk Assessment, 2010, 24, 953-954.	4.0	1
142	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.	4.0	29
143	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.	5.4	11
144	A solution for multicomponent reactive transport under equilibrium and kinetic reactions. Water Resources Research, 2010, 46, .	4.2	16

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145	Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation. Water Resources Research, 2010, 46, .	4.2	74
146	Characterization of the Hydrogeological Experimental Site of Poitiers (France) by stochastic well testing analysis. Journal of Hydrology, 2009, 369, 154-164.	5.4	21
147	Effects of evolving scales of heterogeneity on hydraulic head predictions under convergent flow conditions. Hydrogeology Journal, 2009, 17, 817-825.	2.1	4
148	Conditional Probability Density Functions ofÂConcentrations forÂMixing-Controlled ReactiveÂTransport inÂHeterogeneous Aquifers. Mathematical Geosciences, 2009, 41, 323-351.	2.4	36
149	Effect of Sorption Heterogeneity on Moments of Solute Residence Time in Convergent Flows. Mathematical Geosciences, 2009, 41, 835-853.	2.4	6
150	Application of a mixing-ratios based formulation to model mixing-driven dissolution experiments. Advances in Water Resources, 2009, 32, 756-766.	3.8	12
151	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.	3.8	154
152	Inverse analysis of stochastic moment equations for transient flow in randomly heterogeneous media. Advances in Water Resources, 2009, 32, 1495-1507.	3.8	32
153	Reaction rates and effective parameters in stratified aquifers. Advances in Water Resources, 2008, 31, 1364-1376.	3.8	33
154	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.	3.3	83
155	On the geostatistical characterization of hierarchical media. Water Resources Research, 2008, 44, .	4.2	42
156	Machine Learning Methods for Inverse Modeling. , 2008, , 117-125.		1
157	Statistical Moments of Reaction Rates in Subsurface Reactive Solute Transport. , 2008, , 127-139.		0
158	Type curve interpretation of lateâ€time pumping test data in randomly heterogeneous aquifers. Water Resources Research, 2007, 43, .	4.2	56
159	Nearestâ€neighbor classification for facies delineation. Water Resources Research, 2007, 43, .	4.2	11
160	Interactions between a rectangular cylinder and a free-surface flow. Journal of Fluids and Structures, 2007, 23, 1137-1148.	3.4	63
161	Representative hydraulic conductivities in saturated groundwater flow. Reviews of Geophysics, 2006, 44, .	23.0	235
162	Inverse stochastic moment analysis of steady state flow in randomly heterogeneous media. Water Resources Research, 2006, 42, .	4.2	67

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163	Variable-density flow in porous media. Journal of Fluid Mechanics, 2006, 561, 209.	3.4	63
164	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.	3.8	88
165	Nonlocal and localized analyses of nonreactive solute transport in bounded randomly heterogeneous porous media: Computational analysis. Advances in Water Resources, 2006, 29, 1399-1418.	3.8	47
166	Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. Journal of Computational Physics, 2006, 217, 166-175.	3.8	33
167	Subsurface characterization with support vector machines. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 47-57.	6.3	56
168	Assessment of uncertainty associated with the estimation of well catchments by moment equations. Advances in Water Resources, 2006, 29, 676-691.	3.8	18
169	Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows. Journal of Contaminant Hydrology, 2006, 82, 23-43.	3.3	19
170	Probabilistic study of well capture zones distribution at the Lauswiesen field site. Journal of Contaminant Hydrology, 2006, 88, 92-118.	3.3	65
171	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.	3.8	16
172	Delineation of Source Protection Zones Using Statistical Methods. Water Resources Management, 2005, 19, 163-185.	3.9	28
173	A procedure for the solution of multicomponent reactive transport problems. Water Resources Research, 2005, 41, .	4.2	156
174	Nonlocal and localized analyses of conditional mean transient flow in bounded, randomly heterogeneous porous media. Water Resources Research, 2004, 40, .	4.2	43
175	Type-curve estimation of statistical heterogeneity. Water Resources Research, 2004, 40, .	4.2	59
176	Convergence assessment of numerical Monte Carlo simulations in groundwater hydrology. Water Resources Research, 2004, 40, .	4.2	133
177	Introduction: Stochastic Models of Flow and Transport in Multiple-scale Heterogeneous Porous Media. Journal of Hydrology, 2004, 294, 1-3.	5.4	6
178	Probabilistic reconstruction of geologic facies. Journal of Hydrology, 2004, 294, 57-67.	5.4	41
179	Effective Properties of Random Composites. SIAM Journal of Scientific Computing, 2004, 26, 625-635.	2.8	7
180	A perturbation solution to the transient Henry problem for seawater intrusion. Developments in Water Science, 2004, 55, 1573-1581.	0.1	0

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181	Moment Differential Equations for Flow in Highly Heterogeneous Porous Media. Surveys in Geophysics, 2003, 24, 81-106.	4.6	83
182	Conditioning mean steady state flow on hydraulic head and conductivity through geostatistical inversion. Stochastic Environmental Research and Risk Assessment, 2003, 17, 329-338.	4.0	59
183	Random domain decomposition for flow in heterogeneous stratified aquifers. Stochastic Environmental Research and Risk Assessment, 2003, 17, 394-407.	4.0	24
184	Stochastic averaging of nonlinear flows in heterogeneous porous media. Journal of Fluid Mechanics, 2003, 492, 47-62.	3.4	49
185	Three-dimensional steady state flow to a well in a randomly heterogeneous bounded aquifer. Water Resources Research, 2003, 39, .	4.2	40
186	Unsaturated flow in heterogeneous soils with spatially distributed uncertain hydraulic parameters. Journal of Hydrology, 2003, 275, 182-193.	5.4	38
187	Numerical solutions of moment equations for flow in heterogeneous composite aquifers. Water Resources Research, 2002, 38, 13-1-13-8.	4.2	44
188	Title is missing!. Transport in Porous Media, 2002, 49, 41-58.	2.6	19
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