

# Alberto Guadagnini

## List of Publications by Year in descending order

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196  
papers

5,353  
citations

87401

40  
h-index

139680

61  
g-index

202  
all docs

202  
docs citations

202  
times ranked

3495  
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. <i>Transport in Porous Media</i> , 2022, 142, 509-530.	1.2	3
2	Pore-scale computational analyses of non-Darcy flow through highly porous structures with various degrees of geometrical complexity. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102048.	1.7	5
3	Assessment of Hydrological Processes in an Ungauged Catchment in Eritrea. <i>Hydrology</i> , 2022, 9, 68.	1.3	3
4	Probabilistic identification of Preferential Groundwater Networks. <i>Journal of Hydrology</i> , 2022, 610, 127906.	2.3	10
5	Macrodispersion in generalized sub-Gaussian randomly heterogeneous porous media. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123117.	2.5	1
6	Natural springs protection and probabilistic risk assessment under uncertain conditions. <i>Science of the Total Environment</i> , 2021, 751, 141430.	3.9	2
7	Solute transport in bounded porous media characterized by generalized sub-Gaussian log-conductivity distributions. <i>Advances in Water Resources</i> , 2021, 147, 103812.	1.7	5
8	Data assimilation with multiple types of observation boreholes via the ensemble Kalman filter embedded within stochastic moment equations. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1689-1709.	1.9	4
9	Uncertainty Analysis and Identification of Key Parameters Controlling Bacteria Transport Within a Riverbank Filtration Scenario. <i>Water Resources Research</i> , 2021, 57, e2020WR027911.	1.7	12
10	Analysis of the performance of a crude-oil desalting system based on historical data. <i>Fuel</i> , 2021, 291, 120046.	3.4	21
11	Statistical Characterization of Heterogeneous Dissolution Rates of Calcite from In situ and Real-Time AFM Imaging. <i>Transport in Porous Media</i> , 2021, 140, 291-312.	1.2	6
12	Object oriented spatial analysis of natural concentration levels of chemical species in regional-scale aquifers. <i>Spatial Statistics</i> , 2021, 43, 100494.	0.9	4
13	Probabilistic modeling of field-scale CO <sub>2</sub> generation by carbonate-clay reactions in sedimentary basins. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3539-3553.	1.9	2
14	Impact of multiple uncertainties on gravimetric variations across randomly heterogeneous aquifers during pumping. <i>Advances in Water Resources</i> , 2021, 154, 103978.	1.7	3
15	Formulation and probabilistic assessment of reversible biodegradation pathway of Diclofenac in groundwater. <i>Water Research</i> , 2021, 204, 117466.	5.3	9
16	Modeling solute transport and mixing in heterogeneous porous media under turbulent flow conditions. <i>Physics of Fluids</i> , 2021, 33, 106604.	1.6	3
17	Statistical Description of Calcite Surface Roughness Resulting from Dissolution at Close-to-Equilibrium Conditions. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3115-3129.	1.2	4
18	Stochastic Inverse Modeling and Parametric Uncertainty of Sediment Deposition Processes Across Geologic Time Scales. <i>Mathematical Geosciences</i> , 2021, 53, 1101-1124.	1.4	7

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19	Feedback mechanisms between precipitation and dissolution reactions across randomly heterogeneous conductivity fields. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5905-5915.	1.9	2
20	Features of transport in non-Gaussian random porous systems. <i>International Journal of Heat and Mass Transfer</i> , 2021, 184, 122244.	2.5	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. <i>Advances in Water Resources</i> , 2020, 145, 103714.	1.7	4
23	Assessment of turbulence effects on effective solute diffusivity close to a sediment-free fluid interface. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 2211-2228.	1.9	4
24	Quantification of the information content of Darcy fluxes associated with hydraulic conductivity fields evaluated at diverse scales. <i>Advances in Water Resources</i> , 2020, 145, 103730.	1.7	2
25	Probabilistic assessment of spatial heterogeneity of natural background concentrations in large-scale groundwater bodies through Functional Geostatistics. <i>Science of the Total Environment</i> , 2020, 740, 140139.	3.9	12
26	Random walk evaluation of Greenâ€™s functions for groundwater flow in heterogeneous aquifers. <i>Journal of Hydrology</i> , 2020, 588, 125029.	2.3	3
27	Integration of moment equations in a reduced-order modeling strategy for Monte Carlo simulations of groundwater flow. <i>Journal of Hydrology</i> , 2020, 590, 125257.	2.3	5
28	Generalized Subâ€™Gaussian Processes: Theory and Application to Hydrogeological and Geochemical Data. <i>Water Resources Research</i> , 2020, 56, e2020WR027436.	1.7	10
29	Global Sensitivity Analysis for Multiple Interpretive Models With Uncertain Parameters. <i>Water Resources Research</i> , 2020, 56, e2019WR025754.	1.7	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. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3097-3109.	1.9	2
32	Grid convergence for numerical solutions of stochastic moment equations of groundwater flow. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1565-1579.	1.9	4
33	Stochastic inverse modeling and global sensitivity analysis to assist interpretation of drilling mud losses in fractured formations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1681-1697.	1.9	10
34	Global sensitivity analyses of multiple conceptual models with uncertain parameters driving groundwater flow in a regional-scale sedimentary aquifer. <i>Journal of Hydrology</i> , 2019, 574, 544-556.	2.3	37
35	Identification of Channeling in Poreâ€™scale Flows. <i>Geophysical Research Letters</i> , 2019, 46, 3270-3278.	1.5	11
36	Solute transport in random composite media with uncertain dispersivities. <i>Advances in Water Resources</i> , 2019, 128, 48-58.	1.7	5

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37	Hysteresis effects of three-phase relative permeabilities on black-oil reservoir simulation under WAG injection protocols. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 1161-1174.	2.1	17
38	Geostatistical multimodel approach for the assessment of the spatial distribution of natural background concentrations in large-scale groundwater bodies. <i>Water Research</i> , 2019, 149, 522-532.	5.3	33
39	Statistical modeling of gas-permeability spatial variability along a limestone core. <i>Spatial Statistics</i> , 2019, 34, 100249.	0.9	9
40	Probabilistic analysis of risk and mitigation of deepwater well blowouts and oil spills. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 2647-2666.	1.9	8
41	Uncertainty Quantification and Global Sensitivity Analysis of Subsurface Flow Parameters to Gravimetric Variations During Pumping Tests in Unconfined Aquifers. <i>Water Resources Research</i> , 2018, 54, 501-518.	1.7	22
42	Benchmarking numerical codes for tracer transport with the aid of laboratory-scale experiments in 2D heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2018, 212, 55-64.	1.6	6
43	Space-time mesh adaptation for solute transport in randomly heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2018, 212, 28-40.	1.6	3
44	Solute dispersion for stable density-driven flow in randomly heterogeneous porous media. <i>Advances in Water Resources</i> , 2018, 111, 329-345.	1.7	4
45	Adaptive POD model reduction for solute transport in heterogeneous porous media. <i>Computational Geosciences</i> , 2018, 22, 297-308.	1.2	8
46	Implications of uncertain bioreactive parameters on a complex reaction network of atrazine biodegradation in soil. <i>Advances in Water Resources</i> , 2018, 121, 263-276.	1.7	15
47	Recent advances in scalable non-Gaussian geostatistics: The generalized sub-Gaussian model. <i>Journal of Hydrology</i> , 2018, 562, 685-691.	2.3	19
48	Assessment of alternative adsorption models and global sensitivity analysis to characterize hexavalent chromium loss from soil to surface runoff. <i>Hydrological Processes</i> , 2018, 32, 3140-3157.	1.1	9
49	Local and Global Sensitivity Analysis of $Cr(VI)$ Geogenic Leakage Under Uncertain Environmental Conditions. <i>Water Resources Research</i> , 2018, 54, 5785-5802.	1.7	15
50	Data Assimilation in Density-Dependent Subsurface Flows via Localized Iterative Ensemble Kalman Filter. <i>Water Resources Research</i> , 2018, 54, 6259-6281.	1.7	7
51	Influence of pumping operational schedule on solute concentrations at a well in randomly heterogeneous aquifers. <i>Journal of Hydrology</i> , 2017, 546, 490-502.	2.3	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. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 51-59.	5.0	123
53	Theoretical analysis of non-Gaussian heterogeneity effects on subsurface flow and transport. <i>Water Resources Research</i> , 2017, 53, 2998-3012.	1.7	16
54	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.	1.6	10

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55	Uncertainty Quantification in Scale-Dependent Models of Flow in Porous Media. <i>Water Resources Research</i> , 2017, 53, 9392-9401.	1.7	17
56	Identifiability of parameters of three-phase oil relative permeability models under simultaneous water and gas (SWAG) injection. <i>Journal of Petroleum Science and Engineering</i> , 2017, 159, 942-951.	2.1	10
57	Quantification of CO <sub>2</sub> generation in sedimentary basins through carbonate/clays reactions with uncertain thermodynamic parameters. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 198-215.	1.6	7
58	Dimensionality reduction for efficient Bayesian estimation of groundwater flow in strongly heterogeneous aquifers. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 2313-2326.	1.9	7
59	Uncertainty quantification of overpressure buildup through inverse modeling of compaction processes in sedimentary basins. <i>Hydrogeology Journal</i> , 2017, 25, 385-403.	0.9	7
60	Influence of capillary end effects on steady-state relative permeability estimates from direct pore-scale simulations. <i>Physics of Fluids</i> , 2017, 29, .	1.6	17
61	Moment-based metrics for global sensitivity analysis of hydrological systems. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6219-6234.	1.9	55
62	Effects of Pore-Scale Geometry and Wettability on Two-Phase Relative Permeabilities within Elementary Cells. <i>Water (Switzerland)</i> , 2017, 9, 252.	1.2	8
63	Characterization of reciprocity gaps from interference tests in fractured media through a dual porosity model. <i>Water Resources Research</i> , 2016, 52, 1696-1704.	1.7	8
64	An Approach Towards a FEP-based Model for Risk Assessment for Hydraulic Fracturing Operations. <i>Energy Procedia</i> , 2016, 97, 387-394.	1.8	8
65	Characterization of Bimolecular Reactive Transport in Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2016, 115, 291-310.	1.2	18
66	A Class-Kriging Predictor for Functional Compositions with Application to Particle-Size Curves in Heterogeneous Aquifers. <i>Mathematical Geosciences</i> , 2016, 48, 463-485.	1.4	25
67	Characterization of two- and three-phase relative permeability of water-wet porous media through X-Ray saturation measurements. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 453-463.	2.1	26
68	Data-worth analysis through probabilistic collocation-based Ensemble Kalman Filter. <i>Journal of Hydrology</i> , 2016, 540, 488-503.	2.3	32
69	Stochastic simulation of soil particle-size curves in heterogeneous aquifer systems through a Bayes space approach. <i>Water Resources Research</i> , 2016, 52, 5708-5726.	1.7	25
70	Inverse modeling of unsaturated flow using clusters of soil texture and pedotransfer functions. <i>Water Resources Research</i> , 2016, 52, 7631-7644.	1.7	22
71	Comparative assessment of three-phase oil relative permeability models. <i>Water Resources Research</i> , 2016, 52, 5341-5356.	1.7	14
72	Theory and generation of conditional, scalable sub-Gaussian random fields. <i>Water Resources Research</i> , 2016, 52, 1746-1761.	1.7	12

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73	Identification of groundwater flow parameters using reciprocal data from hydraulic interference tests. <i>Journal of Hydrology</i> , 2016, 539, 88-101.	2.3	9
74	A Novel Enhanced-Oil-Recovery Screening Approach Based on Bayesian Clustering and Principal-Component Analysis. <i>SPE Reservoir Evaluation and Engineering</i> , 2016, 19, 382-390.	1.1	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. <i>Computational Geosciences</i> , 2016, 20, 637-653.	1.2	3
77	Analytical expressions for three-phase generalized relative permeabilities in water- and oil-wet capillary tubes. <i>Computational Geosciences</i> , 2016, 20, 555-565.	1.2	4
78	Continuum-scale characterization of solute transport based on pore-scale velocity distributions. <i>Geophysical Research Letters</i> , 2015, 42, 7537-7545.	1.5	33
79	New scaling model for variables and increments with heavy-tailed distributions. <i>Water Resources Research</i> , 2015, 51, 4623-4634.	1.7	25
80	Impact of space-time mesh adaptation on solute transport modeling in porous media. <i>Water Resources Research</i> , 2015, 51, 1315-1332.	1.7	14
81	Multimodel framework for characterization of transport in porous media. <i>Water Resources Research</i> , 2015, 51, 3384-3402.	1.7	22
82	Laboratory-scale Investigation of Two-phase Relative Permeability. <i>Procedia Environmental Sciences</i> , 2015, 25, 166-174.	1.3	3
83	Scalable statistics of correlated random variables and extremes applied to deep borehole porosities. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 729-745.	1.9	13
84	Direct numerical simulation of fully saturated flow in natural porous media at the pore scale: a comparison of three computational systems. <i>Computational Geosciences</i> , 2015, 19, 423-437.	1.2	12
85	Interpretation of two-phase relative permeability curves through multiple formulations and Model Quality criteria. <i>Journal of Petroleum Science and Engineering</i> , 2015, 135, 738-749.	2.1	21
86	Detecting the vulnerability of groundwater in semi-confined aquifers using barometric response functions. <i>Journal of Hydrology</i> , 2015, 520, 143-156.	2.3	18
87	Anti-correlated Porosity-Permeability Changes During the Dissolution of Carbonate Rocks: Experimental Evidences and Modeling. <i>Transport in Porous Media</i> , 2015, 107, 595-621.	1.2	48
88	Simulation and analysis of scalable non-Gaussian statistically anisotropic random functions. <i>Journal of Hydrology</i> , 2015, 531, 88-95.	2.3	13
89	Upscaling thermal conductivities of sedimentary formations for geothermal exploration. <i>Geothermics</i> , 2015, 58, 49-61.	1.5	28
90	Statistical scaling of geometric characteristics in stochastically generated pore microstructures. <i>Computational Geosciences</i> , 2015, 19, 845-854.	1.2	3

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91	Prediction of three-phase oil relative permeability through a sigmoid-based model. <i>Journal of Petroleum Science and Engineering</i> , 2015, 126, 190-200.	2.1	18
92	EnKF coupled with groundwater flow moment equations applied to Lauswiesen aquifer, Germany. <i>Journal of Hydrology</i> , 2015, 521, 205-216.	2.3	26
93	Probabilistic assessment of seawater intrusion under multiple sources of uncertainty. <i>Advances in Water Resources</i> , 2015, 75, 93-104.	1.7	31
94	Three-Phase Permeabilities: Upscaling, Analytical Solutions and Uncertainty Analysis in Elementary Pore Structures. <i>Transport in Porous Media</i> , 2015, 106, 259-283.	1.2	9
95	Origins of anomalous transport in heterogeneous media: Structural and dynamic controls. <i>Water Resources Research</i> , 2014, 50, 1490-1505.	1.7	128
96	Relationship between pore size and velocity probability distributions in stochastically generated porous media. <i>Physical Review E</i> , 2014, 89, 013018.	0.8	53
97	Statistical scaling of pore-scale Lagrangian velocities in natural porous media. <i>Physical Review E</i> , 2014, 90, 023013.	0.8	16
98	Impact of two geostatistical hydro-facies simulation strategies on head statistics under non-uniform groundwater flow. <i>Journal of Hydrology</i> , 2014, 508, 343-355.	2.3	16
99	A reduced-order model for Monte Carlo simulations of stochastic groundwater flow. <i>Computational Geosciences</i> , 2014, 18, 157-169.	1.2	14
100	A kriging approach based on Aitchison geometry for the characterization of particle-size curves in heterogeneous aquifers. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 1835-1851.	1.9	58
101	Geochemical modeling of arsenic release from a deep natural solid matrix under alternated redox conditions. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1628-1637.	2.7	10
102	Statistical Scaling of Geometric Characteristics in Millimeter Scale Natural Porous Media. <i>Transport in Porous Media</i> , 2014, 101, 465-475.	1.2	12
103	Comparison of Ensemble Kalman Filter groundwater-data assimilation methods based on stochastic moment equations and Monte Carlo simulation. <i>Advances in Water Resources</i> , 2014, 66, 8-18.	1.7	28
104	Anisotropic statistical scaling of soil and sediment texture in a stratified deep vadose zone near Maricopa, Arizona. <i>Geoderma</i> , 2014, 214-215, 217-227.	2.3	26
105	Multimodel Bayesian analysis of groundwater data worth. <i>Water Resources Research</i> , 2014, 50, 8481-8496.	1.7	38
106	Estimation of spatial covariance of log conductivity from particle size data. <i>Water Resources Research</i> , 2014, 50, 5298-5308.	1.7	13
107	Polynomial chaos expansion for global sensitivity analysis applied to a model of radionuclide migration in a randomly heterogeneous aquifer. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 945-954.	1.9	74
108	Mobility and Interaction of Heavy Metals in a Natural Soil. <i>Transport in Porous Media</i> , 2013, 97, 295-315.	1.2	10

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109	New General Analytical Solution for Infiltration Structures Design. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 637-644.	0.7	3
110	Numerical investigation of pore and continuum scale formulations of bimolecular reactive transport in porous media. <i>Advances in Water Resources</i> , 2013, 62, 243-253.	1.7	46
111	Reactive transport in disordered media: Role of fluctuations in interpretation of laboratory experiments. <i>Advances in Water Resources</i> , 2013, 51, 86-103.	1.7	23
112	Sub-Gaussian model of processes with heavy-tailed distributions applied to air permeabilities of fractured tuff. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 195-207.	1.9	35
113	Controlling scaling metrics for improved characterization of well-head protection regions. <i>Journal of Hydrology</i> , 2013, 494, 107-115.	2.3	9
114	Arsenic release from deep natural solid matrices under experimentally controlled redox conditions. <i>Science of the Total Environment</i> , 2013, 444, 231-240.	3.9	43
115	Upscaling solute transport in porous media from the pore scale to dual and multicontinuum formulations. <i>Water Resources Research</i> , 2013, 49, 2025-2039.	1.7	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. <i>Computational Geosciences</i> , 2013, 17, 25-42.	1.2	71
118	Anisotropic Scaling of Berea Sandstone Log Air Permeability Statistics. <i>Vadose Zone Journal</i> , 2013, 12, 1-15.	1.3	25
119	Data assimilation and parameter estimation via ensemble Kalman filter coupled with stochastic moment equations of transient groundwater flow. <i>Water Resources Research</i> , 2013, 49, 1334-1344.	1.7	41
120	Comparative analysis of formulations for conservative transport in porous media through sensitivity-based parameter calibration. <i>Water Resources Research</i> , 2013, 49, 5206-5220.	1.7	29
121	Anisotropic statistical scaling of vadose zone hydraulic property estimates near Maricopa, Arizona. <i>Water Resources Research</i> , 2013, 49, 8463-8479.	1.7	23
122	On the identification of Dragon Kings among extreme-valued outliers. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 549-561.	0.6	8
123	Estimation of Single-Metal and Competitive Sorption Isotherms through Maximum Likelihood and Model Quality Criteria. <i>Soil Science Society of America Journal</i> , 2012, 76, 1229-1245.	1.2	17
124	Upscaling solute transport in porous media in the presence of an irreversible bimolecular reaction. <i>Advances in Water Resources</i> , 2012, 35, 151-162.	1.7	54
125	On the emergence of reciprocity gaps during interference pumping tests in unconfined aquifers. <i>Advances in Water Resources</i> , 2012, 46, 11-19.	1.7	8
126	Extended power-law scaling of air permeabilities measured on a block of tuff. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 29-42.	1.9	29



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127	Extended power-law scaling of heavy-tailed random air-permeability fields in fractured and sedimentary rocks. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3249-3260.	1.9	15
128	An integrated simulation framework for the performance assessment of radioactive waste repositories. <i>Annals of Nuclear Energy</i> , 2012, 39, 1-8.	0.9	7
129	Nominal Range Sensitivity Analysis of peak radionuclide concentrations in randomly heterogeneous aquifers. <i>Annals of Nuclear Energy</i> , 2012, 47, 166-172.	0.9	1
130	Natural background levels and threshold values of chemical species in three large-scale groundwater bodies in Northern Italy. <i>Science of the Total Environment</i> , 2012, 425, 9-19.	3.9	67
131	Interpretation of flowmeter data in heterogeneous layered aquifers. <i>Journal of Hydrology</i> , 2012, 452-453, 76-82.	2.3	7
132	Numerical investigation of apparent multifractality of samples from processes subordinated to truncated fBm. <i>Hydrological Processes</i> , 2012, 26, 2894-2908.	1.1	29
133	Use of global sensitivity analysis and polynomial chaos expansion for interpretation of nonreactive transport experiments in laboratory-scale porous media. <i>Water Resources Research</i> , 2011, 47, .	1.7	72
134	Extended power-law scaling of self-affine signals exhibiting apparent multifractality. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
135	POD-based Monte Carlo approach for the solution of regional scale groundwater flow driven by randomly distributed recharge. <i>Advances in Water Resources</i> , 2011, 34, 1450-1463.	1.7	29
136	Experimental and modeling investigation of multicomponent reactive transport in porous media. <i>Journal of Contaminant Hydrology</i> , 2011, 120-121, 27-44.	1.6	56
137	Joint inversion of steady-state hydrologic and self-potential data for 3D hydraulic conductivity distribution at the Boise Hydrogeophysical Research Site. <i>Journal of Hydrology</i> , 2011, 407, 115-128.	2.3	29
138	Quantitative comparison of impeller-flowmeter and particle-size-distribution techniques for the characterization of hydraulic conductivity variability. <i>Hydrogeology Journal</i> , 2011, 19, 603-612.	0.9	17
139	Theoretical analysis and field evidence of reciprocity gaps during interference pumping tests. <i>Advances in Water Resources</i> , 2011, 34, 592-606.	1.7	20
140	Predicting vertical connectivity within an aquifer system. <i>Bayesian Analysis</i> , 2010, 5, .	1.6	8
141	Uncertainty quantification in modeling flow and transport in porous media. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 953-954.	1.9	1
142	Effects of uncertainty of lithofacies, conductivity and porosity distributions on stochastic interpretations of a field scale tracer test. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 955-970.	1.9	29
143	Stochastic characterization of the Montalto Uffugo research site (Italy) by geostatistical inversion of moment equations of groundwater flow. <i>Journal of Hydrology</i> , 2010, 381, 42-51.	2.3	11
144	A solution for multicomponent reactive transport under equilibrium and kinetic reactions. <i>Water Resources Research</i> , 2010, 46, .	1.7	16

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145	Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation. <i>Water Resources Research</i> , 2010, 46, .	1.7	74
146	Characterization of the Hydrogeological Experimental Site of Poitiers (France) by stochastic well testing analysis. <i>Journal of Hydrology</i> , 2009, 369, 154-164.	2.3	21
147	Effects of evolving scales of heterogeneity on hydraulic head predictions under convergent flow conditions. <i>Hydrogeology Journal</i> , 2009, 17, 817-825.	0.9	4
148	Conditional Probability Density Functions of Concentrations for Mixing-Controlled Reactive Transport in Heterogeneous Aquifers. <i>Mathematical Geosciences</i> , 2009, 41, 323-351.	1.4	36
149	Effect of Sorption Heterogeneity on Moments of Solute Residence Time in Convergent Flows. <i>Mathematical Geosciences</i> , 2009, 41, 835-853.	1.4	6
150	Application of a mixing-ratios based formulation to model mixing-driven dissolution experiments. <i>Advances in Water Resources</i> , 2009, 32, 756-766.	1.7	12
151	A comparison of seven methods for the inverse modelling of groundwater flow. Application to the characterisation of well catchments. <i>Advances in Water Resources</i> , 2009, 32, 851-872.	1.7	154
152	Inverse analysis of stochastic moment equations for transient flow in randomly heterogeneous media. <i>Advances in Water Resources</i> , 2009, 32, 1495-1507.	1.7	32
153	Reaction rates and effective parameters in stratified aquifers. <i>Advances in Water Resources</i> , 2008, 31, 1364-1376.	1.7	33
154	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.	1.6	83
155	On the geostatistical characterization of hierarchical media. <i>Water Resources Research</i> , 2008, 44, .	1.7	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 late-time pumping test data in randomly heterogeneous aquifers. <i>Water Resources Research</i> , 2007, 43, .	1.7	56
159	Nearest-neighbor classification for facies delineation. <i>Water Resources Research</i> , 2007, 43, .	1.7	11
160	Interactions between a rectangular cylinder and a free-surface flow. <i>Journal of Fluids and Structures</i> , 2007, 23, 1137-1148.	1.5	63
161	Representative hydraulic conductivities in saturated groundwater flow. <i>Reviews of Geophysics</i> , 2006, 44, .	9.0	235
162	Inverse stochastic moment analysis of steady state flow in randomly heterogeneous media. <i>Water Resources Research</i> , 2006, 42, .	1.7	67

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