Olaf A Cirpka

List of Publications by Year
in descending order

202	7,788	39113 52	81351 76
papers	citations	h-index	g-index

230	230	230	5977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic Matter Degradation in Energy-Limited Subsurface Environmentsâ€"A Bioenergetics-Informed Modeling Approach. Geomicrobiology Journal, 2022, 39, 1-16.	1.0	3
2	Revealing vertical aquifer heterogeneity and hydraulic anisotropy by pumping partially penetrating wells. Hydrogeology Journal, 2022, 30, 463-477.	0.9	6
3	Toward Improved Bioremediation Strategies: Response of BAM-Degradation Activity to Concentration and Flow Changes in an Inoculated Bench-Scale Sediment Tank. Environmental Science & Technology, 2022, 56, 4050-4061.	4.6	1
4	Spatial Variability of Radon Production Rates in an Alluvial Aquifer Affects Travel Time Estimates of Groundwater Originating From a Losing Stream. Water Resources Research, 2022, 58, .	1.7	5
5	Spatial Markov Model for the Prediction of Travelâ€Timeâ€Based Solute Dispersion in Threeâ€Dimensional Heterogeneous Media. Water Resources Research, 2022, 58, .	1.7	2
6	Toward catchment hydroâ€biogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1495.	2.8	65
7	Magnitude of Diffusion- and Transverse Dispersion-Induced Isotope Fractionation of Organic Compounds in Aqueous Systems. Environmental Science & Technology, 2021, 55, 4772-4782.	4.6	7
8	Mass-Transfer-Limited Biodegradation at Low Concentrationsâ€"Evidence from Reactive Transport Modeling of Isotope Profiles in a Bench-Scale Aquifer. Environmental Science & Technology, 2021, 55, 7386-7397.	4.6	18
9	Does It Pay Off to Explicitly Link Functional Gene Expression to Denitrification Rates in Reaction Models?. Frontiers in Microbiology, 2021, 12, 684146.	1.5	5
10	Finite-volume flux reconstruction and semi-analytical particle tracking on triangular prisms for finite-element-type models of variably-saturated flow. Advances in Water Resources, 2021, 154, 103944.	1.7	1
11	Systematic Evaluation of Geometryâ€Driven Lateral Riverâ€Groundwater Exchange in Floodplains. Water Resources Research, 2021, 57, e2021WR030239.	1.7	1
12	Chromium (VI) removal kinetics by magnetite-coated sand: Small-scale flow-through column experiments. Journal of Hazardous Materials, 2021, 415, 125648.	6.5	9
13	Presentation and discussion of the high-resolution atmosphereâ€"land-surfaceâ€"subsurface simulation dataset of the simulated Neckar catchment for the period 2007â€"2015. Earth System Science Data, 2021, 13, 4437-4464.	3.7	4
14	Surface Transient Storage Under Lowâ€Flow Conditions in Streams With Rough Bathymetry. Water Resources Research, 2021, 57, e2021WR029899.	1.7	8
15	Unraveling biogeochemical complexity through better integration of experiments and modeling. Environmental Sciences: Processes and Impacts, 2021, 23, 1825-1833.	1.7	8
16	Combining implicit geological modeling, field surveys, and hydrogeological modeling to describe groundwater flow in a karst aquifer. Hydrogeology Journal, 2020, 28, 2779-2802.	0.9	22
17	Process-based modeling of arsenic(III) oxidation by manganese oxides under circumneutral pH conditions. Water Research, 2020, 185, 116195.	5.3	13
18	Joint Optimization of Measurement and Modeling Strategies With Application to Radial Flow in Stratified Aquifers. Water Resources Research, 2020, 56, e2019WR026872.	1.7	2

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19	Comparison of Two Ensemble-Kalman Filter Based Methods for Estimating Aquifer Parameters from Real 3-D Hydraulic and Tracer Tomographic Tests. Geosciences (Switzerland), 2020, 10, 462.	1.0	3
20	Comparison of Two Ensemble Kalman-Based Methods for Estimating Aquifer Parameters from Virtual 2-D Hydraulic and Tracer Tomographic Tests. Geosciences (Switzerland), 2020, 10, 276.	1.0	7
21	Postprocessing of standard finite element velocity fields for accurate particle tracking applied to groundwater flow. Computational Geosciences, 2020, 24, 1605-1624.	1.2	1
22	Sampling behavioral model parameters for ensemble-based sensitivity analysis using Gaussian process emulation and active subspaces. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1813-1830.	1.9	7
23	Structural controls on the hydrogeological functioning of a floodplain. Hydrogeology Journal, 2020, 28, 2675-2696.	0.9	14
24	Directâ€Push Color Logging Images Spatial Heterogeneity of Organic Carbon in Floodplain Sediments. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005887.	1.3	5
25	Strategies for Simplifying Reactive Transport Models: A Bayesian Model Comparison. Water Resources Research, 2020, 56, e2020WR028100.	1.7	3
26	Modeling the Fate of Pharmaceuticals in a Fourthâ€Order River Under Competing Assumptions of Transient Storage. Water Resources Research, 2020, 56, e2019WR026100.	1.7	10
27	AQDS and Redox-Active NOM Enables Microbial Fe(III)-Mineral Reduction at cm-Scales. Environmental Science & Technology, 2020, 54, 4131-4139.	4.6	49
28	Managing collaborative research data for integrated, interdisciplinary environmental research. Earth Science Informatics, 2020, 13, 641-654.	1.6	3
29	Spatial and temporal evolution of groundwater arsenic contamination in the Red River delta, Vietnam: Interplay of mobilisation and retardation processes. Science of the Total Environment, 2020, 717, 137143.	3.9	61
30	Anomaly effect-driven optimization of direct-current geoelectric mapping surveys in large areas. Journal of Applied Geophysics, 2020, 176, 104002.	0.9	5
31	Technical Note: Improved sampling of behavioral subsurface flow model parameters using active subspaces. Hydrology and Earth System Sciences, 2020, 24, 4567-4574.	1.9	4
32	An Open, Objectâ€Based Framework for Generating Anisotropy in Sedimentary Subsurface Models. Ground Water, 2019, 57, 420-429.	0.7	4
33	Mass Transfer Limitation during Slow Anaerobic Biodegradation of 2-Methylnaphthalene. Environmental Science & Technology, 2019, 53, 9481-9490.	4.6	18
34	Global sensitivity analysis and adaptive stochastic sampling of a subsurface-flow model using active subspaces. Hydrology and Earth System Sciences, 2019, 23, 3787-3805.	1.9	17
35	The value of simplified models for spin up of complex models with an application to subsurface hydrology. Computers and Geosciences, 2019, 126, 62-72.	2.0	3
36	An Electronâ€Balance Based Approach to Predict the Decreasing Denitrification Potential of an Aquifer. Ground Water, 2019, 57, 925-939.	0.7	4

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37	Turnover and legacy of sediment-associated PAH in a baseflow-dominated river. Science of the Total Environment, 2019, 671, 754-764.	3.9	19
38	Fate of wastewater contaminants in rivers: Using conservative-tracer based transfer functions to assess reactive transport. Science of the Total Environment, 2019, 656, 1250-1260.	3.9	37
39	Modeling of Contaminant Biodegradation and Compound-Specific Isotope Fractionation in Chemostats at Low Dilution Rates. Environmental Science & Technology, 2019, 53, 1186-1196.	4.6	11
40	In-situ mass spectrometry improves the estimation of stream reaeration from gas-tracer tests. Science of the Total Environment, 2019, 655, 1062-1070.	3.9	17
41	Direct Breakthrough Curve Prediction From Statistics of Heterogeneous Conductivity Fields. Water Resources Research, 2018, 54, 271-285.	1.7	15
42	A mobile-mobile transport model for simulating reactive transport in connected heterogeneous fields. Journal of Hydrology, 2018, 560, 97-108.	2.3	11
43	Contaminant concentration versus flow velocity: drivers of biodegradation and microbial growth in groundwater model systems. Biodegradation, 2018, 29, 211-232.	1.5	22
44	Accounting for the Decreasing Reaction Potential of Heterogeneous Aquifers in a Stochastic Framework of Aquiferâ€Scale Reactive Transport. Water Resources Research, 2018, 54, 442-463.	1.7	14
45	A Critical Assessment of Relating Resazurinâ€“Resorufin Experiments to Reachâ€Scale Metabolism in Lowland Streams. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3538-3555.	1.3	9
46	Application of Experimental Polystyrene Partition Constants and Diffusion Coefficients to Predict the Sorption of Neutral Organic Chemicals to Multiwell Plates in in Vivo and in Vitro Bioassays. Environmental Science & Technology, 2018, 52, 13511-13522.	4.6	40
47	Contributions of catchment and in-stream processes to suspended sediment transport in a dominantly groundwater-fed catchment. Hydrology and Earth System Sciences, 2018, 22, 3903-3921.	1.9	14
48	Efficient geostatistical inversion of transient groundwater flow using preconditioned nonlinear conjugate gradients. Advances in Water Resources, 2017, 102, 161-177.	1.7	11
49	Tracerâ€based characterization of hyporheic exchange and benthic biolayers in streams. Water Resources Research, 2017, 53, 1575-1594.	1.7	80
50	The impact of sedimentary anisotropy on solute mixing in stacked scourâ€pool structures. Water Resources Research, 2017, 53, 2813-2832.	1.7	12
51	Preconditioning an ensemble Kalman filter for groundwater flow using environmental-tracer observations. Journal of Hydrology, 2017, 545, 42-54.	2.3	9
52	Shift in Mass Transfer of Wastewater Contaminants from Microplastics in the Presence of Dissolved Substances. Environmental Science & Technology, 2017, 51, 12254-12263.	4.6	118
53	Mechanisms of distinct activated carbon and biochar amendment effects on petroleum vapour biofiltration in soil. Environmental Sciences: Processes and Impacts, 2017, 19, 1260-1269.	1.7	10
54	Determination of hyporheic travel time distributions and other parameters from concurrent conservative and reactive tracer tests by localâ€inâ€global optimization. Water Resources Research, 2017, 53, 4984-5001.	1.7	25

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55	Formation of N-Nitrosodimethylamine during Chloramination of Secondary and Tertiary Amines: Role of Molecular Oxygen and Radical Intermediates. Environmental Science & Technology, 2017, 51, 280-290.	4.6	58
56	Joint inference of groundwaterâ€“recharge and hydraulicâ€“conductivity fields from head data using the ensemble Kalman filter. Hydrology and Earth System Sciences, 2016, 20, 555-569.	1.9	39
57	Using an integrated hydrological model to estimate the usefulness of meteorological drought indices in a changing climate. Hydrology and Earth System Sciences, 2016, 20, 4159-4175.	1.9	5
58	Exposure-time based modeling of nonlinear reactive transport in porous media subject to physical and geochemical heterogeneity. Journal of Contaminant Hydrology, 2016, 192, 35-49.	1.6	25
59	A travel timeâ€based approach to model kinetic sorption in highly heterogeneous porous media via reactive hydrofacies. Water Resources Research, 2016, 52, 9390-9411.	1.7	10
60	Debatesâ€”Stochastic subsurface hydrology from theory to practice: Does stochastic subsurface hydrology help solving practical problems of contaminant hydrogeology?. Water Resources Research, 2016, 52, 9218-9227.	1.7	38
61	Compound-Specific Stable Isotope Fractionation of Pesticides and Pharmaceuticals in a Mesoscale Aquifer Model. Environmental Science & Technology, 2016, 50, 5729-5739.	4.6	21
62	Cumulative relative reactivity: A concept for modeling aquifer-scale reactive transport. Water Resources Research, 2016, 52, 8117-8137.	1.7	21
63	Experimental investigation of transverse mixing in porous media under helical flow conditions. Physical Review E, 2016, 94, 013113.	0.8	13
64	Helical Flow and Transient Solute Dilution in Porous Media. Transport in Porous Media, 2016, 111, 591-603.	1.2	9
65	Combining 3D Hydraulic Tomography with Tracer Tests for Improved Transport Characterization. Ground Water, 2016, 54, 498-507.	0.7	25
66	Using travel times to simulate multi-dimensional bioreactive transport in time-periodic flows. Journal of Contaminant Hydrology, 2016, 187, 1-17.	1.6	15
67	Estimating climate-change effects on a Mediterranean catchment under various irrigation conditions. Journal of Hydrology: Regional Studies, 2015, 4, 550-570.	1.0	12
68	Experimental Evidence of Helical Flow in Porous Media. Physical Review Letters, 2015, 115, 194502.	2.9	52
69	Enhancement of plume dilution in twoâ€dimensional and threeâ€dimensional porous media by flow focusing in highâ€permeability inclusions. Water Resources Research, 2015, 51, 5582-5602.	1.7	46
70	Tracer Tomography: Design Concepts and Field Experiments Using Heat as a Tracer. Ground Water, 2015, 53, 139-148.	0.7	22
71	A field comparison of multiple techniques to quantify groundwaterâ€“surface-water interactions. Freshwater Science, 2015, 34, 139-160.	0.9	77
72	Modulation of oxygen production in Archaean oceans by episodes of Fe(II) toxicity. Nature Geoscience, 2015, 8, 126-130.	5.4	68

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73	Transverse mixing in three-dimensional nonstationary anisotropic heterogeneous porous media. Water Resources Research, 2015, 51, 241-260.	1.7	71
74	Impact of non-idealities in gas-tracer tests on the estimation of reaeration, respiration, and photosynthesis rates in streams. Water Research, 2015, 83, 205-216.	5.3	21
75	Dynamics of Suspended and Attached Aerobic Toluene Degraders in Small-Scale Flow-through Sediment Systems under Growth and Starvation Conditions. Environmental Science & Technology, 2015, 49, 7161-7169.	4.6	26
76	Transverse Mixing in Heterogeneous Aquifers. Procedia Environmental Sciences, 2015, 25, 66-73.	1.3	1
77	Flow-through experiments on waterâ€“rock interactions in a sandstone caused by CO2 injection at pressures and temperatures mimicking reservoir conditions. Applied Geochemistry, 2015, 58, 136-146.	1.4	55
78	On the validity of travel-time based nonlinear bioreactive transport models in steady-state flow. Journal of Contaminant Hydrology, 2015, 175-176, 26-43.	1.6	21
79	Impact of Heterogeneity on Oxygen Transfer in a Fluctuating Capillary Fringe. Ground Water, 2015, 53, 57-70.	0.7	22
80	Helical flow in three-dimensional nonstationary anisotropic heterogeneous porous media. Water Resources Research, 2015, 51, 261-280.	1.7	30
81	Fringe-controlled biodegradation under dynamic conditions: Quasi 2-D flow-through experiments and reactive-transport modeling. Journal of Contaminant Hydrology, 2015, 172, 100-111.	1.6	13
82	Experimental investigation of compound-specific dilution of solute plumes in saturated porous media: 2-D vs. 3-D flow-through systems. Journal of Contaminant Hydrology, 2015, 172, 33-47.	1.6	52
83	Morphological, hydrological, biogeochemical and ecological changes and challenges in river restoration â€“ the Thur River case study. Hydrology and Earth System Sciences, 2014, 18, 2449-2462.	1.9	46
84	Sorption and transformation of the reactive tracers resazurin and resorufin in natural river sediments. Hydrology and Earth System Sciences, 2014, 18, 3151-3163.	1.9	20
85	Particle-Facilitated Transport of Lindane in Water-Saturated Tropical Lateritic Porous Media. Journal of Environmental Quality, 2014, 43, 1392-1403.	1.0	6
86	Non-stationary nonparametric inference of river-to-groundwater travel-time distributions. Journal of Hydrology, 2014, 519, 3386-3399.	2.3	15
87	Efficient calibration of a distributed pde -based hydrological model using grid coarsening. Journal of Hydrology, 2014, 519, 3290-3304.	2.3	22
88	Experimental Sensitivity Analysis of Oxygen Transfer in the Capillary Fringe. Ground Water, 2014, 52, 37-49.	0.7	13
89	Three-dimensional geostatistical inversion of synthetic tomographic pumping and heat-tracer tests in a nested-cell setup. Advances in Water Resources, 2014, 63, 77-90.	1.7	23
90	Helicity and flow topology in three-dimensional anisotropic porous media. Advances in Water Resources, 2014, 73, 134-143.	1.7	41

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91	Altered transport of lindane caused by the retention of natural particles in saturated porous media. Journal of Contaminant Hydrology, 2014, 162-163, 47-63.	1.6	5
92	Modeling substrate-bacteria-grazer interactions coupled to substrate transport in groundwater. Water Resources Research, 2014, 50, 4149-4162.	1.7	7
93	Tomographic Methods in Hydrogeology. Advanced Technologies in Earth Sciences, 2014, , 157-176.	0.9	3
94	Effect of natural particles on the transport of lindane in saturated porous media: Laboratory experiments and model-based analysis. Journal of Contaminant Hydrology, 2013, 149, 13-26.	1.6	25
95	Catchments as reactors: a comprehensive approach for water fluxes and solute turnover. Environmental Earth Sciences, 2013, 69, 317-333.	1.3	71
96	Delineating subsurface heterogeneity at a loop of River Steinlach using geophysical and hydrogeological methods. Environmental Earth Sciences, 2013, 69, 335-348.	1.3	32
97	On-line fluorometry of multiple reactive and conservative tracers in streams. Environmental Earth Sciences, 2013, 69, 349-358.	1.3	35
98	Assessing hyporheic exchange and associated travel times by hydraulic, chemical, and isotopic monitoring at the Steinlach Test Site, Germany. Environmental Earth Sciences, 2013, 69, 359-372.	1.3	17
99	Modeling the dynamics of oxygen consumption upon riverbank filtration by a stochasticâ€“convective approach. Journal of Hydrology, 2013, 505, 352-363.	2.3	45
100	Concurrent conservative and reactive tracer tests in a stream undergoing hyporheic exchange. Water Resources Research, 2013, 49, 3024-3037.	1.7	41
101	Model Complexity Needed for Quantitative Analysis of High Resolution Isotope and Concentration Data from a Toluene-Pulse Experiment. Environmental Science & Technology, 2013, 47, 6900-6907.	4.6	24
102	Direct Experimental Evidence of Non-first Order Degradation Kinetics and Sorption-Induced Isotopic Fractionation in a Mesoscale Aquifer: ¹³C/¹²C Analysis of a Transient Toluene Pulse. Environmental Science & Technology, 2013, 47, 6892-6899.	4.6	19
103	Optimized Sustainable Groundwater Extraction Management: General Approach and Application to the City of Lucknow, India. Water Resources Management, 2013, 27, 4349-4368.	1.9	14
104	Modeling and inverting reactive stream tracers undergoing two-site sorption and decay in the hyporheic zone. Water Resources Research, 2013, 49, 3406-3422.	1.7	36
105	Absolute/Convective Instability Dichotomy in a Soret-Driven Thermosolutal Convection Induced in a Porous Layer by Inclined Thermal and Vertical Solutal Gradients. Transport in Porous Media, 2012, 95, 425-446.	1.2	7
106	Fully coupled hydrogeophysical inversion of a laboratory salt tracer experiment monitored by electrical resistivity tomography. Water Resources Research, 2012, 48, .	1.7	76
107	Stochastic evaluation of mixing-controlled steady-state plume lengths in two-dimensional heterogeneous domains. Journal of Contaminant Hydrology, 2012, 138-139, 22-39.	1.6	45
108	Numerical simulation of isotope fractionation in steady-state bioreactive transport controlled by transverse mixing. Journal of Contaminant Hydrology, 2012, 140-141, 95-106.	1.6	45

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109	Investigating riparian groundwater flow close to a losing river using diurnal temperature oscillations at high vertical resolution. Hydrology and Earth System Sciences, 2012, 16, 473-487.	1.9	39
110	Oxygen Transfer in a Fluctuating Capillary Fringe. Vadose Zone Journal, 2012, 11, vzj2011.0056.	1.3	62
111	Efficient parallelization of geostatistical inversion using the quasi-linear approach. Computers and Geosciences, 2012, 44, 78-85.	2.0	10
112	Magnetostratigraphy of deep drilling core SG-1 in the western Qaidam Basin (NE Tibetan Plateau) and its tectonic implications. Quaternary Research, 2012, 78, 139-148.	1.0	82
113	Intrinsic Remediation in Natural-Gradient Systems. SERDP and ESTCP Remediation Technology Monograph Series, 2012, , 217-238.	0.3	0
114	How well do mean breakthrough curves predict mixingâ€controlled reactive transport?. Water Resources Research, 2011, 47, .	1.7	25
115	Transverse mixing of conservative and reactive tracers in porous media: Quantification through the concepts of fluxâ€related and critical dilution indices. Water Resources Research, 2011, 47, .	1.7	53
116	Shapeâ€free inference of hyporheic traveltime distributions from synthetic conservative and â€œsmartâ€• tracer tests in streams. Water Resources Research, 2011, 47, .	1.7	41
117	Relevance of local compoundâ€specific transverse dispersion for conservative and reactive mixing in heterogeneous porous media. Water Resources Research, 2011, 47, .	1.7	53
118	Stochastic fluxâ€related analysis of transverse mixing in twoâ€dimensional heterogeneous porous media. Water Resources Research, 2011, 47, .	1.7	66
119	Probability density function of steady state concentration in twoâ€dimensional heterogeneous porous media. Water Resources Research, 2011, 47, .	1.7	19
120	Towards improved instrumentation for assessing river-groundwater interactions in a restored river corridor. Hydrology and Earth System Sciences, 2011, 15, 2531-2549.	1.9	47
121	Propagation of Seasonal Temperature Signals into an Aquifer upon Bank Infiltration. Ground Water, 2011, 49, 491-502.	0.7	47
122	A high-resolution non-invasive approach to quantify oxygen transport across the capillary fringe and within the underlying groundwater. Journal of Contaminant Hydrology, 2011, 122, 26-39.	1.6	63
123	Simulating the transition of a semi-arid rainfed catchment towards irrigation agriculture. Journal of Hydrology, 2011, 409, 663-681.	2.3	27
124	Cell-Sorting at the A/P Boundary in the Drosophila Wing Primordium: A Computational Model to Consolidate Observed Non-Local Effects of Hh Signaling. PLoS Computational Biology, 2011, 7, e1002025.	1.5	28
125	Stochastic evaluation of mass discharge from pointlike concentration measurements. Journal of Contaminant Hydrology, 2010, 111, 36-47.	1.6	18
126	Estimation of seepage rates in a losing stream by means of fiber-optic high-resolution vertical temperature profiling. Journal of Hydrology, 2010, 380, 154-164.	2.3	198

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127	Fluctuations of electrical conductivity as a natural tracer for bank filtration in a losing stream. Advances in Water Resources, 2010, 33, 1296-1308.	1.7	108
128	Interpolation of Steadyâ€State Concentration Data by Inverse Modeling. Ground Water, 2010, 48, 569-579.	0.7	11
129	Arsenic release from paddy soils during monsoonÂflooding. Nature Geoscience, 2010, 3, 53-59.	5.4	123
130	Evidence of Compound-Dependent Hydrodynamic and Mechanical Transverse Dispersion by Multitracer Laboratory Experiments. Environmental Science & Technology, 2010, 44, 688-693.	4.6	102
131	Fully coupled hydrogeophysical inversion of synthetic salt tracer experiments. Water Resources Research, 2010, 46, .	1.7	56
132	Simplified simulation of steady state bioreactive transport with kinetic solute uptake by the biomass. Water Resources Research, 2010, 46, .	1.7	10
133	Fully Coupled Hydrogeophysical Inversion of Salt Tracer Experiments Monitored by Electrical Resistivity Tomography. , 2010, , .		0
134	Enhancement of dilution and transverse reactive mixing in porous media: Experiments and model-based interpretation. Journal of Contaminant Hydrology, 2009, 110, 130-142.	1.6	170
135	Reply to comments on â€œTwo-dimensional concentration distribution for mixing-controlled bioreactive transport in steady stateâ€• by H. Shao et al.. Advances in Water Resources, 2009, 32, 298-301.	1.7	22
136	Use of steady-state concentration measurements in geostatistical inversion. Advances in Water Resources, 2009, 32, 607-619.	1.7	14
137	Influence of Mass-Transfer Limitations on Carbon Isotope Fractionation during Microbial Dechlorination of Trichloroethene. Environmental Science & Technology, 2009, 43, 8813-8820.	4.6	63
138	Iron isotope fractionation and atom exchange during sorption of ferrous iron to mineral surfaces. Geochimica Et Cosmochimica Acta, 2009, 73, 1795-1812.	1.6	82
139	Threeâ€Dimensional Geostatistical Inversion of Flowmeter and Pumping Test Data. Ground Water, 2008, 46, 193-201.	0.7	81
140	Concentration statistics for mixing-controlled reactive transport in random heterogeneous media. Journal of Contaminant Hydrology, 2008, 98, 61-74.	1.6	62
141	Traveltimeâ€based descriptions of transport and mixing in heterogeneous domains. Water Resources Research, 2008, 44, .	1.7	19
142	Temporal moments for transport with mass transfer described by an arbitrary memory function in heterogeneous media. Water Resources Research, 2008, 44, .	1.7	25
143	Comparison of instantaneous and constantâ€rate stream tracer experiments through nonâ€parametric analysis of residence time distributions. Water Resources Research, 2008, 44, .	1.7	46
144	Experimental and numerical studies on excessâ€air formation in quasiâ€saturated porous media. Water Resources Research, 2008, 44, .	1.7	46

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145	Probability density functions of hydraulic head and velocity in threeâ€dimensional heterogeneous porous media. Water Resources Research, 2008, 44, .	1.7	44
146	Impact of sampling volume on the probability density function of steady state concentration. Water Resources Research, 2008, 44, .	1.7	49
147	Temporal moments in geoelectrical monitoring of salt tracer experiments. Water Resources Research, 2008, 44, .	1.7	30
148	Assessing the Redox Reactivity of Structural Iron in Smectites Using Nitroaromatic Compounds As Kinetic Probes. Environmental Science & Technology, 2008, 42, 8381-8387.	4.6	91
149	Two-dimensional characterization of hydraulic heterogeneity by multiple pumping tests. Water Resources Research, 2007, 43, .	1.7	71
150	Breakthrough curve tailing in a dipole flow field. Water Resources Research, 2007, 43, .	1.7	15
151	Two-dimensional concentration distribution for mixing-controlled bioreactive transport in steady state. Advances in Water Resources, 2007, 30, 1668-1679.	1.7	143
152	Analyzing Bank Filtration by Deconvoluting Time Series of Electric Conductivity. Ground Water, 2007, 45, 318-328.	0.7	121
153	Modeling in-situ uranium(VI) bioreduction by sulfate-reducing bacteria. Journal of Contaminant Hydrology, 2007, 92, 129-148.	1.6	54
154	Stochastic analysis of nonlinear biodegradation in regimes controlled by both chromatographic and dispersive mixing. Water Resources Research, 2006, 42, .	1.7	27
155	Enhanced mixing and reaction through flow focusing in heterogeneous porous media. Water Resources Research, 2006, 42, .	1.7	137
156	Efficient geostatistical inverse methods for structured and unstructured grids. Water Resources Research, 2006, 42, .	1.7	37
157	Experimental determination of transverse dispersivity in a helix and a cochlea. Water Resources Research, 2006, 42, .	1.7	21
158	Geostatistical inference of hydraulic conductivity and dispersivities from hydraulic heads and tracer data. Water Resources Research, 2006, 42, .	1.7	62
159	Groundwater Dynamics and Arsenic Mobilization in Bangladesh Assessed Using Noble Gases and Tritium. Environmental Science & Technology, 2006, 40, 243-250.	4.6	130
160	Pilot-Scale in Situ Bioremediation of Uranium in a Highly Contaminated Aquifer. 1. Conditioning of a Treatment Zone. Environmental Science & Technology, 2006, 40, 3978-3985.	4.6	160
161	Assessing residence times of hyporheic ground water in two alluvial flood plains of the Southern Alps using water temperature and tracers. Hydrology and Earth System Sciences, 2006, 10, 553-563.	1.9	65
162	A Nested-Cell Approach for In Situ Remediation. Ground Water, 2006, 44, 266-274.	0.7	51

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163	Determination of Transverse Dispersion Coefficients from Reactive Plume Lengths. Ground Water, 2006, 44, 212-221.	0.7	91
164	Temporal-moment matching for truncated breakthrough curves for step or step-pulse injection. Advances in Water Resources, 2006, 29, 1306-1313.	1.7	34
165	A parametric transfer function methodology for analyzing reactive transport in nonuniform flow. Journal of Contaminant Hydrology, 2006, 83, 27-41.	1.6	30
166	Pilot-Scale in Situ Bioremedation of Uranium in a Highly Contaminated Aquifer. 2. Reduction of U(VI) and Geochemical Control of U(VI) Bioavailability. Environmental Science & Technology, 2006, 40, 3986-3995.	4.6	242
167	Quantifying Minimum Monolith Size and Solute Dilution from Multiâ€Compartment Percolation Sampler Data. Vadose Zone Journal, 2006, 5, 1086-1092.	1.3	8
168	Effects of sorption on transverse mixing in transient flows. Journal of Contaminant Hydrology, 2005, 78, 207-229.	1.6	28
169	Experiments on vertical transverse mixing in a large-scale heterogeneous model aquifer. Journal of Contaminant Hydrology, 2005, 80, 130-148.	1.6	64
170	Upscaling of Two-Phase Flow Processes in Porous Media. , 2005, , 237-257.		17
171	Mass-Transfer Limitations for Nitrate Removal in a Uranium-Contaminated Aquifer. Environmental Science & Technology, 2005, 39, 8453-8459.	4.6	36
172	Adsorption as a cause for iron isotope fractionation in reduced groundwater. Geochimica Et Cosmochimica Acta, 2005, 69, 4175-4185.	1.6	118
173	Homogenization of Richards equation in permeability fields with different connectivities. Water Resources Research, 2005, 41, .	1.7	47
174	Geostatistical inverse modeling of transient pumping tests using temporal moments of drawdown. Water Resources Research, 2005, 41, .	1.7	73
175	A modified Levenbergâ€“Marquardt algorithm for quasi-linear geostatistical inversing. Advances in Water Resources, 2004, 27, 737-750.	1.7	66
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