

Peter K Kitanidis

List of Publications by Year in descending order

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179
papers

9,786
citations

28274

55
h-index

43889

91
g-index

181
all docs

181
docs citations

181
times ranked

4980
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-Linear Geostatistical Theory for Inversing. <i>Water Resources Research</i> , 1995, 31, 2411-2419.	4.2	465
2	A geostatistical approach to the inverse problem in groundwater modeling (steady state) and one-dimensional simulations. <i>Water Resources Research</i> , 1983, 19, 677-690.	4.2	459
3	The concept of the Dilution Index. <i>Water Resources Research</i> , 1994, 30, 2011-2026.	4.2	335
4	An Application of the Geostatistical Approach to the Inverse Problem in Two-Dimensional Groundwater Modeling. <i>Water Resources Research</i> , 1984, 20, 1003-1020.	4.2	300
5	Parameter Uncertainty in Estimation of Spatial Functions: Bayesian Analysis. <i>Water Resources Research</i> , 1986, 22, 499-507.	4.2	266
6	Pilot-Scale in Situ Bioremediation of Uranium in a Highly Contaminated Aquifer. 2. Reduction of U(VI) and Geochemical Control of U(VI) Bioavailability. <i>Environmental Science & Technology</i> , 2006, 40, 3986-3995.	10.0	242
7	Statistical estimation of polynomial generalized covariance functions and hydrologic applications. <i>Water Resources Research</i> , 1983, 19, 909-921.	4.2	234
8	Prediction by the method of moments of transport in a heterogeneous formation. <i>Journal of Hydrology</i> , 1988, 102, 453-473.	5.4	212
9	In Situ Bioreduction of Uranium (VI) to Submicromolar Levels and Reoxidation by Dissolved Oxygen. <i>Environmental Science & Technology</i> , 2007, 41, 5716-5723.	10.0	182
10	A geostatistical approach to contaminant source identification. <i>Water Resources Research</i> , 1997, 33, 537-546.	4.2	163
11	Pilot-Scale in Situ Bioremediation of Uranium in a Highly Contaminated Aquifer. 1. Conditioning of a Treatment Zone. <i>Environmental Science & Technology</i> , 2006, 40, 3978-3985.	10.0	160
12	Microbial Communities in Contaminated Sediments, Associated with Bioremediation of Uranium to Submicromolar Levels. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3718-3729.	3.1	154
13	Maximum likelihood parameter estimation of hydrologic spatial processes by the Gauss-Newton method. <i>Journal of Hydrology</i> , 1985, 79, 53-71.	5.4	151
14	Estimation of historical groundwater contaminant distribution using the adjoint state method applied to geostatistical inverse modeling. <i>Water Resources Research</i> , 2004, 40, .	4.2	151
15	Characterization of mixing and dilution in heterogeneous aquifers by means of local temporal moments. <i>Water Resources Research</i> , 2000, 36, 1221-1236.	4.2	148
16	Flow convergence routing hypothesis for pool-riffle maintenance in alluvial rivers. <i>Water Resources Research</i> , 2006, 42, .	4.2	137
17	Concentration fluctuations and dilution in aquifers. <i>Water Resources Research</i> , 1998, 34, 1181-1193.	4.2	131
18	Analyzing Bank Filtration by Deconvoluting Time Series of Electric Conductivity. <i>Ground Water</i> , 2007, 45, 318-328.	1.3	121

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19	Determination of the effective hydraulic conductivity for heterogeneous porous media using a numerical spectral approach: 1. Method. <i>Water Resources Research</i> , 1992, 28, 1155-1166.	4.2	118
20	Aquifer heterogeneity characterization with oscillatory pumping: Sensitivity analysis and imaging potential. <i>Water Resources Research</i> , 2013, 49, 5395-5410.	4.2	110
21	Macrotransport of a Biologically Reacting Solute Through Porous Media. <i>Water Resources Research</i> , 1996, 32, 307-320.	4.2	108
22	A Potential-Based Inversion of Unconfined Steady-State Hydraulic Tomography. <i>Ground Water</i> , 2009, 47, 259-270.	1.3	108
23	Significant Association between Sulfate-Reducing Bacteria and Uranium-Reducing Microbial Communities as Revealed by a Combined Massively Parallel Sequencing-Indicator Species Approach. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6778-6786.	3.1	102
24	Experimental Investigation and Pore-Scale Modeling Interpretation of Compound-Specific Transverse Dispersion in Porous Media. <i>Transport in Porous Media</i> , 2012, 93, 347-362.	2.6	101
25	Effects of Nitrate on the Stability of Uranium in a Bioreduced Region of the Subsurface. <i>Environmental Science & Technology</i> , 2010, 44, 5104-5111.	10.0	100
26	Hydraulic conductivity imaging from 3D transient hydraulic tomography at several pumping/observation densities. <i>Water Resources Research</i> , 2013, 49, 7311-7326.	4.2	100
27	On the geostatistical approach to the inverse problem. <i>Advances in Water Resources</i> , 1996, 19, 333-342.	3.8	98
28	Real-time forecasting and daily operation of a multireservoir system during floods by linear quadratic Gaussian control. <i>Water Resources Research</i> , 1983, 19, 1511-1522.	4.2	92
29	Anaerobic Transformation of Chlorinated Aliphatic Hydrocarbons in a Sand Aquifer Based on Spatial Chemical Distributions. <i>Water Resources Research</i> , 1995, 31, 1051-1062.	4.2	91
30	On the importance of diffusion and compound-specific mixing for groundwater transport: An investigation from pore to field scale. <i>Journal of Contaminant Hydrology</i> , 2013, 153, 51-68.	3.3	88
31	An advective-dispersive stream tube approach for the transfer of conservative-tracer data to reactive transport. <i>Water Resources Research</i> , 2000, 36, 1209-1220.	4.2	87
32	A method for enforcing parameter nonnegativity in Bayesian inverse problems with an application to contaminant source identification. <i>Water Resources Research</i> , 2003, 39, .	4.2	85
33	Gradient dynamic programming for stochastic optimal control of multidimensional water resources systems. <i>Water Resources Research</i> , 1988, 24, 1345-1359.	4.2	83
34	Generalized covariance functions in estimation. <i>Mathematical Geosciences</i> , 1993, 25, 525-540.	0.9	83
35	Large-scale hydraulic tomography and joint inversion of head and tracer data using the Principal Component Geostatistical Approach (PCGA). <i>Water Resources Research</i> , 2014, 50, 5410-5427.	4.2	81
36	Effects of kinetic mass transfer and transient flow conditions on widening mixing zones in coastal aquifers. <i>Water Resources Research</i> , 2009, 45, .	4.2	80

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37	Mixing, entropy and reactive solute transport. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	74
38	Optimization of the pumping schedule in aquifer remediation under uncertainty. <i>Water Resources Research</i> , 1990, 26, 875-885.	4.2	72
39	Determination of the effective hydraulic conductivity for heterogeneous porous media using a numerical spectral approach: 2. Results. <i>Water Resources Research</i> , 1992, 28, 1167-1178.	4.2	72
40	Optimal Estimation and Scheduling in Aquifer Remediation With Incomplete Information. <i>Water Resources Research</i> , 1991, 27, 2203-2217.	4.2	71
41	An interactive Bayesian geostatistical inverse protocol for hydraulic tomography. <i>Water Resources Research</i> , 2008, 44, .	4.2	71
42	Effects of compound-specific dilution on transient transport and solute breakthrough: A pore-scale analysis. <i>Advances in Water Resources</i> , 2014, 71, 186-199.	3.8	70
43	Sensitivity of temporal moments calculated by the adjoint-state method and joint inverting of head and tracer data. <i>Advances in Water Resources</i> , 2000, 24, 89-103.	3.8	69
44	Principal Component Geostatistical Approach for large-dimensional inverse problems. <i>Water Resources Research</i> , 2014, 50, 5428-5443.	4.2	68
45	Fluid residence times within a recirculation zone created by an extraction-injection well pair. <i>Journal of Hydrology</i> , 2004, 295, 149-162.	5.4	67
46	Orthonormal residuals in geostatistics: Model criticism and parameter estimation. <i>Mathematical Geosciences</i> , 1991, 23, 741-758.	0.9	64
47	Effects of compound-specific transverse mixing on steady-state reactive plumes: Insights from pore-scale simulations and Darcy-scale experiments. <i>Advances in Water Resources</i> , 2013, 54, 1-10.	3.8	63
48	Large-scale inverse modeling with an application in hydraulic tomography. <i>Water Resources Research</i> , 2011, 47, .	4.2	62
49	Particle-tracking equations for the solution of the advection-dispersion equation with variable coefficients. <i>Water Resources Research</i> , 1994, 30, 3225-3227.	4.2	60
50	Effective hydraulic conductivity for gradually varying flow. <i>Water Resources Research</i> , 1990, 26, 1197-1208.	4.2	59
51	Persistent questions of heterogeneity, uncertainty, and scale in subsurface flow and transport. <i>Water Resources Research</i> , 2015, 51, 5888-5904.	4.2	58
52	PARAMETRIC ESTIMATION OF COVARIANCES OF REGIONALIZED VARIABLES. <i>Journal of the American Water Resources Association</i> , 1987, 23, 557-567.	2.4	57
53	A Method to Infer In Situ Reaction Rates from Push-Pull Experiments. <i>Ground Water</i> , 1998, 36, 645-650.	1.3	57
54	Macroscopic behavior and random-walk particle tracking of kinetically sorbing solutes. <i>Water Resources Research</i> , 2000, 36, 2133-2146.	4.2	57

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55	Effective reaction parameters for mixing controlled reactions in heterogeneous media. <i>Water Resources Research</i> , 2008, 44, .	4.2	57
56	Large-time behavior of concentration variance and dilution in heterogeneous formations. <i>Water Resources Research</i> , 1999, 35, 623-634.	4.2	56
57	Stokes Flow in a Slowly Varying Two-Dimensional Periodic Pore. <i>Transport in Porous Media</i> , 1997, 26, 89-98.	2.6	55
58	Modeling in-situ uranium(VI) bioreduction by sulfate-reducing bacteria. <i>Journal of Contaminant Hydrology</i> , 2007, 92, 129-148.	3.3	54
59	Generalized Taylor-Aris moment analysis of the transport of sorbing solutes through porous media with spatially-periodic retardation factor. <i>Transport in Porous Media</i> , 1992, 7, 163-185.	2.6	52
60	A numerical study of surface-subsurface exchange processes at a riffle-pool pair in the Lahn River, Germany. <i>Water Resources Research</i> , 2005, 41, .	4.2	52
61	A Nested-Cell Approach for In Situ Remediation. <i>Ground Water</i> , 2006, 44, 266-274.	1.3	51
62	Electron donor and pH relationships for biologically enhanced dissolution of chlorinated solvent DNAPL in groundwater. <i>European Journal of Soil Biology</i> , 2007, 43, 276-282.	3.2	51
63	Concentration fluctuations and dilution in two-dimensionally periodic heterogeneous porous media. <i>Transport in Porous Media</i> , 1996, 22, 91-119.	2.6	50
64	Numerical modeling and uncertainties in rate coefficients for methane utilization and TCE cometabolism by a methane-oxidizing mixed culture. <i>Biotechnology and Bioengineering</i> , 1997, 53, 320-331.	3.3	50
65	Frequency dependent hydraulic properties estimated from oscillatory pumping tests in an unconfined aquifer. <i>Journal of Hydrology</i> , 2015, 531, 2-16.	5.4	49
66	Geostatistical interpolation of chemical concentration. <i>Advances in Water Resources</i> , 1996, 19, 369-378.	3.8	48
67	Application of geostatistical inverse modeling to contaminant source identification at Dover AFB, Delaware. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2004, 42, 9-18.	1.7	47
68	Hydraulic Tomography: Continuity and Discontinuity of High- K and Low- K Zones. <i>Ground Water</i> , 2016, 54, 171-185.	1.3	46
69	Efficient solution of nonlinear, underdetermined inverse problems with a generalized PDE model. <i>Computers and Geosciences</i> , 2008, 34, 1480-1491.	4.2	44
70	Imaging geochemical heterogeneities using inverse reactive transport modeling: An example relevant for characterizing arsenic mobilization and distribution. <i>Advances in Water Resources</i> , 2016, 88, 186-197.	3.8	44
71	Randomized algorithms for generalized Hermitian eigenvalue problems with application to computing Karhunen-Loève expansion. <i>Numerical Linear Algebra With Applications</i> , 2016, 23, 314-339.	1.6	43
72	Semi-analytical homogeneous anisotropic capture zone delineation. <i>Journal of Hydrology</i> , 2005, 312, 39-50.	5.4	42

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73	Solute dilution at the Borden and Cape Cod groundwater tracer tests. <i>Water Resources Research</i> , 1994, 30, 2883-2890.	4.2	39
74	An Application of Bayesian Inverse Methods to Vertical Deconvolution of Hydraulic Conductivity in a Heterogeneous Aquifer at Oak Ridge National Laboratory. <i>Mathematical Geosciences</i> , 2004, 36, 101-126.	0.9	39
75	A Bayesian geostatistical transfer function approach to tracer test analysis. <i>Water Resources Research</i> , 2006, 42, .	4.2	39
76	Effects of biomass accumulation on microbially enhanced dissolution of a PCE pool: a numerical simulation. <i>Journal of Contaminant Hydrology</i> , 2003, 65, 79-100.	3.3	38
77	Estimating temporal changes in hydraulic head using InSAR data in the San Luis Valley, Colorado. <i>Water Resources Research</i> , 2014, 50, 4459-4473.	4.2	38
78	Prediction of single phase transport parameters in a variable aperture fracture. <i>Geophysical Research Letters</i> , 1995, 22, 1425-1428.	4.0	37
79	The behavior of effective rate constants for bimolecular reactions in an asymptotic transport regime. <i>Journal of Contaminant Hydrology</i> , 2013, 144, 88-98.	3.3	37
80	Mass-Transfer Limitations for Nitrate Removal in a Uranium-Contaminated Aquifer. <i>Environmental Science & Technology</i> , 2005, 39, 8453-8459.	10.0	36
81	Simulations of two-dimensional modeling of biomass aggregate growth in network models. <i>Water Resources Research</i> , 2001, 37, 2981-2994.	4.2	34
82	Temporal-moment matching for truncated breakthrough curves for step or step-pulse injection. <i>Advances in Water Resources</i> , 2006, 29, 1306-1313.	3.8	34
83	Efficient methods for large-scale linear inversion using a geostatistical approach. <i>Water Resources Research</i> , 2012, 48, .	4.2	34
84	Large-scale stochastic linear inversion using hierarchical matrices. <i>Computational Geosciences</i> , 2013, 17, 913-927.	2.4	34
85	Data processing for oscillatory pumping tests. <i>Journal of Hydrology</i> , 2014, 511, 310-319.	5.4	34
86	Parameter estimation in nonlinear environmental problems. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 1003-1022.	4.0	33
87	Bayesian inversion with total variation prior for discrete geologic structure identification. <i>Water Resources Research</i> , 2013, 49, 7658-7669.	4.2	33
88	A validated model of a photovoltaic water pumping system for off-grid rural communities. <i>Applied Energy</i> , 2019, 241, 580-591.	10.1	33
89	Possible factors controlling the effectiveness of bioenhanced dissolution of non-aqueous phase tetrachloroethene. <i>Advances in Water Resources</i> , 2004, 27, 601-615.	3.8	32
90	Prediction of transmissivities, heads, and seepage velocities using mathematical modeling and geostatistics. <i>Advances in Water Resources</i> , 1989, 12, 90-102.	3.8	31

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91	A Flexible Krylov Solver for Shifted Systems with Application to Oscillatory Hydraulic Tomography. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A3001-A3023.	2.8	31
92	Mass-Transfer Limitations for Macroscale Bioremediation Modeling and Implications on Aquifer Clogging. <i>Ground Water</i> , 1999, 37, 523-531.	1.3	30
93	Travel-Time Based Model of Bioremediation Using Circulation Wells. <i>Ground Water</i> , 2001, 39, 422-432.	1.3	30
94	A parametric transfer function methodology for analyzing reactive transport in nonuniform flow. <i>Journal of Contaminant Hydrology</i> , 2006, 83, 27-41.	3.3	30
95	Growth and cometabolic reduction kinetics of a uranium- and sulfate-reducing <i>Desulfovibrio</i> / <i>Clostridia</i> mixed culture: Temperature effects. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1107-1119.	3.3	30
96	Scalable subsurface inverse modeling of huge data sets with an application to tracer concentration breakthrough data from magnetic resonance imaging. <i>Water Resources Research</i> , 2016, 52, 5213-5231.	4.2	30
97	Analysis of macrodispersion through volume averaging: comparison with stochastic theory. <i>Stochastic Environmental Research and Risk Assessment</i> , 1999, 13, 66-84.	4.0	29
98	Generalized covariance functions associated with the Laplace Equation and Their use in interpolation and inverse problems. <i>Water Resources Research</i> , 1999, 35, 1361-1367.	4.2	29
99	Hydraulic performance analysis of a multiple injection-extraction well system. <i>Journal of Hydrology</i> , 2007, 336, 294-302.	5.4	28
100	Aquifer Imaging with Oscillatory Hydraulic Tomography: Application at the Field Scale. <i>Ground Water</i> , 2020, 58, 710-722.	1.3	28
101	Hydrogeophysical Characterization of Nonstationary DNAPL Source Zones by Integrating a Convolutional Variational Autoencoder and Ensemble Smoother. <i>Water Resources Research</i> , 2021, 57, e2020WR028538.	4.2	27
102	Error analysis of conventional discrete and gradient dynamic programming. <i>Water Resources Research</i> , 1987, 23, 845-858.	4.2	26
103	Effects of Shear Detachment on Biomass Growth and In Situ Bioremediation. <i>Ground Water</i> , 1999, 37, 555-563.	1.3	26
104	A Kalman filter powered by H2-matrices for quasi-continuous data assimilation problems. <i>Water Resources Research</i> , 2014, 50, 3734-3749.	4.2	26
105	Fast computation of uncertainty quantification measures in the geostatistical approach to solve inverse problems. <i>Advances in Water Resources</i> , 2015, 82, 124-138.	3.8	26
106	Improved characterization of heterogeneous permeability in saline aquifers from transient pressure data during freshwater injection. <i>Water Resources Research</i> , 2017, 53, 4444-4458.	4.2	26
107	Modeling the Free Surface of an Unconfined Aquifer Near a Recirculation Well. <i>Ground Water</i> , 1993, 31, 774-780.	1.3	25
108	Dependence of lumped mass transfer coefficient on scale and reactions kinetics for biologically enhanced NAPL dissolution. <i>Advances in Water Resources</i> , 2007, 30, 1618-1629.	3.8	25

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109	Geostatistical inverting for large-contrast transmissivity fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 565-577.	4.0	25
110	Integration of Artificial Recharge and Recovery Systems for Impaired Water Sources in Urban Settings: Overcoming Current Limitations and Engineering Challenges. <i>Environmental Engineering Science</i> , 2013, 30, 409-420.	1.6	24
111	The compressed state Kalman filter for nonlinear state estimation: Application to large-scale reservoir monitoring. <i>Water Resources Research</i> , 2015, 51, 9942-9963.	4.2	24
112	Real-time data assimilation for large-scale systems: The spectral Kalman filter. <i>Advances in Water Resources</i> , 2015, 86, 260-272.	3.8	24
113	Application of Hierarchical Matrices to Linear Inverse Problems in Geostatistics. <i>Oil and Gas Science and Technology</i> , 2012, 67, 857-875.	1.4	23
114	Cost optimization of DNAPL source and plume remediation under uncertainty using a semi-analytic model. <i>Journal of Contaminant Hydrology</i> , 2010, 113, 25-43.	3.3	22
115	Geostatistical Estimation of Hydraulic Head Gradients. <i>Ground Water</i> , 1989, 27, 855-865.	1.3	21
116	Experimental determination of transverse dispersivity in a helix and a cochlea. <i>Water Resources Research</i> , 2006, 42, .	4.2	21
117	Applicability of the Dual-Domain Model to Nonaggregated Porous Media. <i>Ground Water</i> , 2012, 50, 927-934.	1.3	21
118	Inhibition of a U(VI)- and Sulfate-Reducing Consortia by U(VI). <i>Environmental Science & Technology</i> , 2007, 41, 6528-6533.	10.0	20
119	Longitudinal dispersion coefficients for numerical modeling of groundwater solute transport in heterogeneous formations. <i>Journal of Contaminant Hydrology</i> , 2018, 212, 41-54.	3.3	20
120	Advection-diffusion in spatially random flows: Formulation of concentration covariance. <i>Stochastic Hydrology & Hydraulics</i> , 1997, 11, 397-422.	0.5	19
121	On stochastic inverse modeling. <i>Geophysical Monograph Series</i> , 2007, , 19-30.	0.1	19
122	Value of Information as a Context-Specific Measure of Uncertainty in Groundwater Remediation. <i>Water Resources Management</i> , 2012, 26, 1513-1535.	3.9	19
123	Improved Characterization of DNAPL Source Zones via Sequential Hydrogeophysical Inversion of Hydraulic Head, Self-Potential and Partitioning Tracer Data. <i>Water Resources Research</i> , 2020, 56, e2020WR027627.	4.2	18
124	Stochastic modeling of short-term exposure close to an air pollution source in a naturally ventilated room: An autocorrelated random walk method. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2014, 24, 311-318.	3.9	17
125	Relating relative hydraulic and electrical conductivity in the unsaturated zone. <i>Water Resources Research</i> , 2015, 51, 599-618.	4.2	17
126	Numerical evaluation of solute dispersion and dilution in unsaturated heterogeneous media. <i>Water Resources Research</i> , 2002, 38, 2-1-2-15.	4.2	16

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127	Compressed state Kalman filter for large systems. <i>Advances in Water Resources</i> , 2015, 76, 120-126.	3.8	16
128	Multipreconditioned Gmres for Shifted Systems. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S222-S247.	2.8	16
129	Application of deep learning to large scale riverine flow velocity estimation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 1069-1088.	4.0	16
130	Integrating deep learning-based data assimilation and hydrogeophysical data for improved monitoring of DNAPL source zones during remediation. <i>Journal of Hydrology</i> , 2021, 601, 126655.	5.4	16
131	A method for the interpolation of nonnegative functions with an application to contaminant load estimation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 8-23.	4.0	15
132	Breakthrough curve tailing in a dipole flow field. <i>Water Resources Research</i> , 2007, 43, .	4.2	15
133	Electrical Resistivity for Characterization and Infiltration Monitoring beneath a Managed Aquifer Recharge Pond. <i>Vadose Zone Journal</i> , 2013, 12, 1-20.	2.2	15
134	Stochastic Cost Optimization of Multistrategy DNAPL Site Remediation. <i>Ground Water Monitoring and Remediation</i> , 2010, 30, 65-78.	0.8	14
135	Increasing Confidence in Mass Discharge Estimates Using Geostatistical Methods. <i>Ground Water</i> , 2011, 49, 197-208.	1.3	14
136	Generalized priors in Bayesian inversion problems. <i>Advances in Water Resources</i> , 2012, 36, 3-10.	3.8	14
137	Riverine Bathymetry Imaging With Indirect Observations. <i>Water Resources Research</i> , 2018, 54, 3704-3727.	4.2	14
138	Analytical expressions of conditional mean, covariance, and sample functions in geostatistics. <i>Stochastic Hydrology & Hydraulics</i> , 1996, 10, 279-294.	0.5	13
139	How Observations and Structure Affect the Geostatistical Solution to the Steady-State Inverse Problem. <i>Ground Water</i> , 1998, 36, 754-763.	1.3	13
140	Effects of model formulation and calibration data on uncertainty in dense nonaqueous phase liquids source dissolution predictions. <i>Water Resources Research</i> , 2010, 46, .	4.2	13
141	Fast iterative implementation of large-scale nonlinear geostatistical inverse modeling. <i>Water Resources Research</i> , 2014, 50, 198-207.	4.2	13
142	Borehole water level model for photovoltaic water pumping systems. <i>Applied Energy</i> , 2020, 258, 114080.	10.1	12
143	Deep learning technique for fast inference of large-scale riverine bathymetry. <i>Advances in Water Resources</i> , 2021, 147, 103715.	3.8	12
144	Title is missing!. <i>Transport in Porous Media</i> , 2001, 42, 109-132.	2.6	11

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145	Trace organic chemical attenuation during managed aquifer recharge: Insights from a variably saturated 2D tank experiment. <i>Journal of Hydrology</i> , 2017, 548, 641-651.	5.4	11
146	Impact of Biomass-Decay Terms on the Simulation of Pulsed Bioremediation. <i>Ground Water</i> , 2000, 38, 254-263.	1.3	10
147	Use of on-site bioreactors to estimate the biotransformation rate of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) during activated sludge treatment. <i>Chemosphere</i> , 2013, 92, 702-707.	8.2	10
148	Teaching and communicating dispersion in hydrogeology, with emphasis on the applicability of the Fickian model. <i>Advances in Water Resources</i> , 2017, 106, 11-23.	3.8	10
149	Smoothing-based compressed state Kalman filter for joint state-parameter estimation: Applications in reservoir characterization and CO ₂ storage monitoring. <i>Water Resources Research</i> , 2017, 53, 7190-7207.	4.2	10
150	Fast Large-Scale Joint Inversion for Deep Aquifer Characterization Using Pressure and Heat Tracer Measurements. <i>Transport in Porous Media</i> , 2018, 123, 533-543.	2.6	10
151	Sensitivity Analysis of Photovoltaic Pumping Systems for Domestic Water Supply. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 6734-6743.	4.9	10
152	Optimization of monitoring well installation time and location during aquifer decontamination. <i>Water Resources Management</i> , 1996, 10, 439-462.	3.9	9
153	Stochastic cost optimization of DNAPL remediation – Method description and sensitivity study. <i>Environmental Modelling and Software</i> , 2012, 38, 74-88.	4.5	9
154	A mathematical and computational study of the dispersivity tensor in anisotropic porous media. <i>Advances in Water Resources</i> , 2013, 62, 303-316.	3.8	9
155	A variance-ratio test for supporting a variable mean in kriging. <i>Mathematical Geosciences</i> , 1997, 29, 335-348.	0.9	8
156	Surge block method for controlling well clogging and sampling sediment during bioremediation. <i>Water Research</i> , 2013, 47, 6566-6573.	11.3	8
157	Long-term mass transfer and mixing-controlled reactions of a DNAPL plume from persistent residuals. <i>Journal of Contaminant Hydrology</i> , 2014, 157, 11-24.	3.3	8
158	Optimal estimation and scheduling in aquifer management using the rapid feedback control method. <i>Advances in Water Resources</i> , 2017, 110, 310-318.	3.8	8
159	Analysis of groundwater flow and travel times for a landfill site in an arid region with a thick vadose zone. <i>Hydrological Processes</i> , 1993, 7, 373-387.	2.6	7
160	Fitting Data Under Omnidirectional Noise: A Probabilistic Method for Inferring Petrophysical and Hydrologic Relations. <i>Mathematical Geosciences</i> , 2010, 42, 877-909.	2.4	7
161	Tortuosity and Archie's Law. , 2013, , 115-126.		7
162	Fast Kalman filter using hierarchical matrices and a low-rank perturbative approach. <i>Inverse Problems</i> , 2015, 31, 015009.	2.0	7

#	ARTICLE	IF	CITATIONS
163	Optimal Decision Making Algorithm for Managed Aquifer Recharge and Recovery Operation Using Near Real-time Data: Benchtop Scale Laboratory Demonstration. Ground Water Monitoring and Remediation, 2017, 37, 27-41.	0.8	7
164	Novel Data Assimilation Algorithm for Nearshore Bathymetry. Journal of Atmospheric and Oceanic Technology, 2019, 36, 699-715.	1.3	7
165	Estimating first-order reaction rate coefficient for transport with nonequilibrium linear mass transfer in heterogeneous media. Journal of Contaminant Hydrology, 2008, 98, 50-60.	3.3	6
166	Assessment of the Effectiveness of a Constructed Compound Channel River Restoration Project on an Incised Stream. Journal of Hydraulic Engineering, 2010, 136, 1042-1052.	1.5	6
167	Estimating Reaction Rate Coefficients Within a Travel-Time Modeling Framework. Ground Water, 2011, 49, 209-218.	1.3	6
168	Modelling and Optimal Sizing of Photovoltaic Water Pumping Systems – Sensitivity Analysis. , 2019, , .		6
169	Fast Algorithms for Bayesian Inversion. The IMA Volumes in Mathematics and Its Applications, 2013, , 101-142.	0.5	6
170	Routing algorithms as tools for integrating social distancing with emergency evacuation. Scientific Reports, 2021, 11, 19623.	3.3	6
171	Hierarchical Bayesian Inversion of Global Variables and Large-scale Spatial Fields. Water Resources Research, 2022, 58, .	4.2	5
172	On the Asymptotic Behavior of Dilution Parameters for Gaussian and Hole Gaussian Log-Conductivity Covariance Functions. Transport in Porous Media, 2004, 56, 257-281.	2.6	4
173	Estimating kinetic mass transfer by resting-period measurements in flow-interruption tracer tests. Journal of Contaminant Hydrology, 2010, 117, 37-45.	3.3	4
174	Cost Optimization of DNAPL Remediation at Dover Air Force Base Site. Ground Water Monitoring and Remediation, 2012, 32, 48-56.	0.8	4
175	A fast algorithm for parabolic PDE-based inverse problems based on Laplace transforms and flexible Krylov solvers. Journal of Computational Physics, 2015, 299, 940-954.	3.8	4
176	Effect of irradiance data on the optimal sizing of photovoltaic water pumping systems. , 2019, , .		3
177	Stochastic cost optimization of DNAPL remediation – Field application. Environmental Modelling and Software, 2013, 46, 12-20.	4.5	2
178	Transport and Mixing. SERDP and ESTCP Remediation Technology Monograph Series, 2012, , 53-75.	0.3	2
179	An information inequality for Bayesian analysis in imaging problems. GEM - International Journal on Geomathematics, 2021, 12, 1.	1.6	1