

Michael Fiene

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,718
citations

201674

27
h-index

206112

48
g-index

85
all docs

85
docs citations

85
times ranked

3107
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Scripting <scp>MODFLOW</scp> Model Development Using Python and <scp>FloPy</scp>. <i>Ground Water</i> , 2016, 54, 733-739.	1.3	227
3	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
4	CrowdHydrology: Crowdsourcing Hydrologic Data and Engaging Citizen Scientists. <i>Ground Water</i> , 2013, 51, 151-156.	1.3	149
5	Analyzing Bank Filtration by Deconvoluting Time Series of Electric Conductivity. <i>Ground Water</i> , 2007, 45, 318-328.	1.3	121
6	A statistical learning framework for groundwater nitrate models of the Central Valley, California, USA. <i>Journal of Hydrology</i> , 2015, 531, 902-911.	5.4	120
7	A python framework for environmental model uncertainty analysis. <i>Environmental Modelling and Software</i> , 2016, 85, 217-228.	4.5	80
8	Understanding the DayCent model: Calibration, sensitivity, and identifiability through inverse modeling. <i>Environmental Modelling and Software</i> , 2015, 66, 110-130.	4.5	77
9	An interactive Bayesian geostatistical inverse protocol for hydraulic tomography. <i>Water Resources Research</i> , 2008, 44, .	4.2	71
10	On Constraining Pilot Point Calibration with Regularization in PEST. <i>Ground Water</i> , 2009, 47, 835-844.	1.3	65
11	Bridging groundwater models and decision support with a Bayesian network. <i>Water Resources Research</i> , 2013, 49, 6459-6473.	4.2	63
12	Social.Waterâ€™A crowdsourcing tool for environmental data acquisition. <i>Computers and Geosciences</i> , 2012, 49, 164-169.	4.2	56
13	Obtaining parsimonious hydraulic conductivity fields using head and transport observations: A Bayesian geostatistical parameter estimation approach. <i>Water Resources Research</i> , 2009, 45, .	4.2	53
14	A Nested-Cell Approach for In Situ Remediation. <i>Ground Water</i> , 2006, 44, 266-274.	1.3	51
15	Effects of seaâ€™level rise on barrier island groundwater system dynamics â€™ ecohydrological implications. <i>Ecohydrology</i> , 2014, 7, 1064-1071.	2.4	47
16	Evaluating the sources of water to wells: Three techniques for metamodelling of a groundwater flow model. <i>Environmental Modelling and Software</i> , 2016, 77, 95-107.	4.5	45
17	Semi-analytical homogeneous anisotropic capture zone delineation. <i>Journal of Hydrology</i> , 2005, 312, 39-50.	5.4	42
18	Predicting recreational water quality advisories: A comparison of statistical methods. <i>Environmental Modelling and Software</i> , 2016, 76, 81-94.	4.5	42

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19	Growing Pains of Crowdsourced Stream Stage Monitoring Using Mobile Phones: The Development of CrowdHydrology. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	42
20	Development of a joint hydrogeophysical inversion approach and application to a contaminated fractured aquifer. <i>Water Resources Research</i> , 2006, 42, .	4.2	41
21	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
22	A Bayesian geostatistical transfer function approach to tracer test analysis. <i>Water Resources Research</i> , 2006, 42, .	4.2	39
23	A cross-validation package driving Netica with python. <i>Environmental Modelling and Software</i> , 2015, 63, 14-23.	4.5	38
24	Mass-Transfer Limitations for Nitrate Removal in a Uranium-Contaminated Aquifer. <i>Environmental Science & Technology</i> , 2005, 39, 8453-8459.	10.0	36
25	Metamodeling for Groundwater Age Forecasting in the Lake Michigan Basin. <i>Water Resources Research</i> , 2018, 54, 4750-4766.	4.2	32
26	Capture Versus Capture Zones: Clarifying Terminology Related to Sources of Water to Wells. <i>Ground Water</i> , 2018, 56, 694-704.	1.3	31
27	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
28	The Effect of Particle Size Distribution on the Design of Urban Stormwater Control Measures. <i>Water (Switzerland)</i> , 2016, 8, 17.	2.7	28
29	Depletion Mapping and Constrained Optimization to Support Managing Groundwater Extraction. <i>Ground Water</i> , 2018, 56, 18-31.	1.3	24
30	Nitrous Oxide Emissions from Cropland: a Procedure for Calibrating the DayCent Biogeochemical Model Using Inverse Modelling. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	22
31	A tool for efficient, model-independent management optimization under uncertainty. <i>Environmental Modelling and Software</i> , 2018, 100, 213-221.	4.5	22
32	Toward Reproducible Environmental Modeling for Decision Support: A Worked Example. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	22
33	HESS Opinions: Repeatable research: what hydrologists can learn from the Duke cancer research scandal. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3739-3743.	4.9	21
34	Three-dimensional Distribution of Groundwater Residence Time Metrics in the Glaciated United States Using Metamodels Trained on General Numerical Simulation Models. <i>Water Resources Research</i> , 2021, 57, e2020WR027335.	4.2	21
35	Revisiting "An Exercise in Groundwater Model Calibration and Prediction" After 30 Years: Insights and New Directions. <i>Ground Water</i> , 2020, 58, 168-182.	1.3	20
36	Partial least squares for efficient models of fecal indicator bacteria on Great Lakes beaches. <i>Journal of Environmental Management</i> , 2013, 114, 470-475.	7.8	19

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37	High-Throughput Computing Versus High-Performance Computing for Groundwater Applications. <i>Ground Water</i> , 2015, 53, 180-184.	1.3	19
38	Metamodels to Bridge the Gap Between Modeling and Decision Support. <i>Ground Water</i> , 2015, 53, 511-512.	1.3	18
39	A Semi-Structured <scp>MODFLOW-MSG</scp> Model to Evaluate Local Water Sources to Wells for Decision Support. <i>Ground Water</i> , 2016, 54, 532-544.	1.3	17
40	Regression Modeling of Particle Size Distributions in Urban Storm Water: Advancements through Improved Sample Collection Methods. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 1186-1193.	1.4	16
41	Towards improved environmental modeling outcomes: Enabling low-cost access to high-dimensional, geostatistical-based decision-support analyses. <i>Environmental Modelling and Software</i> , 2021, 139, 105022.	4.5	16
42	DigitalCrust – a 4D data system of material properties for transforming research on crustal fluid flow. <i>Geofluids</i> , 2015, 15, 372-379.	0.7	13
43	Cross-Scale Interactions Dictate Regional Lake Carbon Flux and Productivity Response to Future Climate. <i>Geophysical Research Letters</i> , 2019, 46, 8840-8851.	4.0	13
44	<scp>SFRmaker</scp> and Linesink-Maker: Rapid Construction of Streamflow Routing Networks from Hydrography Data. <i>Ground Water</i> , 2021, 59, 761-771.	1.3	13
45	The Three-Point Problem, Vector Analysis and Extension to the N-Point Problem. <i>Journal of Geoscience Education</i> , 2005, 53, 257-262.	1.4	12
46	Wrangling distributed computing for high-throughput environmental science: An introduction to HTCondor. <i>PLoS Computational Biology</i> , 2018, 14, e1006468.	3.2	11
47	A Simple Method for Simulating Groundwater Interactions with Fens to Forecast Development Effects. <i>Ground Water</i> , 2020, 58, 524-534.	1.3	10
48	Risk-Based Wellhead Protection Decision Support: A Repeatable Workflow Approach. <i>Ground Water</i> , 2022, 60, 71-86.	1.3	10
49	Assessing spatial transferability of a random forest metamodel for predicting drainage fraction. <i>Journal of Hydrology</i> , 2022, 612, 128177.	5.4	8
50	Multi-Constrained Catchment Scale Optimization of Groundwater Abstraction Using Linear Programming. <i>Ground Water</i> , 2021, 59, 503-516.	1.3	7
51	A model-independent tool for evolutionary constrained multi-objective optimization under uncertainty. <i>Environmental Modelling and Software</i> , 2022, 149, 105316.	4.5	7
52	Estimating first-order reaction rate coefficient for transport with nonequilibrium linear mass transfer in heterogeneous media. <i>Journal of Contaminant Hydrology</i> , 2008, 98, 50-60.	3.3	6
53	Prioritizing river basins for intensive monitoring and assessment by the US Geological Survey. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 458.	2.7	6
54	Inverse Modeling with RZWQM2 to Predict Water Quality. <i>Advances in Agricultural Systems Modeling</i> , 0, , 327-363.	0.3	5

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55	MODFLOW-Style Parameters in Underdetermined Parameter Estimation. <i>Ground Water</i> , 2012, 50, 149-153.	1.3	4
56	We Speak for the Data. <i>Ground Water</i> , 2013, 51, n/a-n/a.	1.3	4
57	Groundwater Model Simulations of Stakeholder-Identified Scenarios in a High-Conflict Irrigated Area. <i>Ground Water</i> , 2020, 58, 973-986.	1.3	4
58	Extending the Capture Map Concept to Estimate Discrete and Risk-Based Streamflow Depletion Potential. <i>Ground Water</i> , 2021, 59, 571-580.	1.3	2
59	A scalable model-independent iterative data assimilation tool for sequential and batch estimation of high dimensional model parameters and states. <i>Environmental Modelling and Software</i> , 2022, 150, 105284.	4.5	1