

Michael Fielen

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,718
citations

230014

27
h-index

232693

48
g-index

85
all docs

85
docs citations

85
times ranked

3511
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk-Based Wellhead Protection Decision Support: A Repeatable Workflow Approach. <i>Ground Water</i> , 2022, 60, 71-86.	0.7	10
2	A model-independent tool for evolutionary constrained multi-objective optimization under uncertainty. <i>Environmental Modelling and Software</i> , 2022, 149, 105316.	1.9	7
3	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.	1.9	1
4	Assessing spatial transferability of a random forest metamodel for predicting drainage fraction. <i>Journal of Hydrology</i> , 2022, 612, 128177.	2.3	8
5	Multi-Constrained Catchment Scale Optimization of Groundwater Abstraction Using Linear Programming. <i>Ground Water</i> , 2021, 59, 503-516.	0.7	7
6	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.	1.7	21
7	Extending the Capture Map Concept to Estimate Discrete and Risk-Based Streamflow Depletion Potential. <i>Ground Water</i> , 2021, 59, 571-580.	0.7	2
8	<scp>SFRmaker</scp> and Linesink-Maker: Rapid Construction of Streamflow Routing Networks from Hydrography Data. <i>Ground Water</i> , 2021, 59, 761-771.	0.7	13
9	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.	1.9	16
10	Revisiting "An Exercise in Groundwater Model Calibration and Prediction" After 30 Years: Insights and New Directions. <i>Ground Water</i> , 2020, 58, 168-182.	0.7	20
11	A Simple Method for Simulating Groundwater Interactions with Fens to Forecast Development Effects. <i>Ground Water</i> , 2020, 58, 524-534.	0.7	10
12	Toward Reproducible Environmental Modeling for Decision Support: A Worked Example. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	22
13	Prioritizing river basins for intensive monitoring and assessment by the US Geological Survey. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 458.	1.3	6
14	Groundwater Model Simulations of Stakeholder-Identified Scenarios in a High-Conflict Irrigated Area. <i>Ground Water</i> , 2020, 58, 973-986.	0.7	4
15	Cross-Scale Interactions Dictate Regional Lake Carbon Flux and Productivity Response to Future Climate. <i>Geophysical Research Letters</i> , 2019, 46, 8840-8851.	1.5	13
16	Growing Pains of Crowdsourced Stream Stage Monitoring Using Mobile Phones: The Development of CrowdHydrology. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	42
17	Capture Versus Capture Zones: Clarifying Terminology Related to Sources of Water to Wells. <i>Ground Water</i> , 2018, 56, 694-704.	0.7	31
18	Depletion Mapping and Constrained Optimization to Support Managing Groundwater Extraction. <i>Ground Water</i> , 2018, 56, 18-31.	0.7	24

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19	A tool for efficient, model-independent management optimization under uncertainty. Environmental Modelling and Software, 2018, 100, 213-221.	1.9	22
20	Wrangling distributed computing for high-throughput environmental science: An introduction to HTCCondor. PLoS Computational Biology, 2018, 14, e1006468.	1.5	11
21	Metamodeling for Groundwater Age Forecasting in the Lake Michigan Basin. Water Resources Research, 2018, 54, 4750-4766.	1.7	32
22	The Effect of Particle Size Distribution on the Design of Urban Stormwater Control Measures. Water (Switzerland), 2016, 8, 17.	1.2	28
23	HESS Opinions: Repeatable research: what hydrologists can learn from the Duke cancer research scandal. Hydrology and Earth System Sciences, 2016, 20, 3739-3743.	1.9	21
24	A Semi-Structured MODFLOW-USG Model to Evaluate Local Water Sources to Wells for Decision Support. Ground Water, 2016, 54, 532-544.	0.7	17
25	A python framework for environmental model uncertainty analysis. Environmental Modelling and Software, 2016, 85, 217-228.	1.9	80
26	Scripting MODFLOW Model Development Using Python and FloPy. Ground Water, 2016, 54, 733-739.	0.7	227
27	Predicting recreational water quality advisories: A comparison of statistical methods. Environmental Modelling and Software, 2016, 76, 81-94.	1.9	42
28	Evaluating the sources of water to wells: Three techniques for metamodeling of a groundwater flow model. Environmental Modelling and Software, 2016, 77, 95-107.	1.9	45
29	DigitalCrust – a 4D data system of material properties for transforming research on crustal fluid flow. Geofluids, 2015, 15, 372-379.	0.3	13
30	Metamodels to Bridge the Gap Between Modeling and Decision Support. Ground Water, 2015, 53, 511-512.	0.7	18
31	A statistical learning framework for groundwater nitrate models of the Central Valley, California, USA. Journal of Hydrology, 2015, 531, 902-911.	2.3	120
32	High-Throughput Computing Versus High-Performance Computing for Groundwater Applications. Ground Water, 2015, 53, 180-184.	0.7	19
33	Understanding the DayCent model: Calibration, sensitivity, and identifiability through inverse modeling. Environmental Modelling and Software, 2015, 66, 110-130.	1.9	77
34	A cross-validation package driving Netica with python. Environmental Modelling and Software, 2015, 63, 14-23.	1.9	38
35	Effects of sea-level rise on barrier island groundwater system dynamics – ecohydrological implications. Ecohydrology, 2014, 7, 1064-1071.	1.1	47
36	CrowdHydrology: Crowdsourcing Hydrologic Data and Engaging Citizen Scientists. Ground Water, 2013, 51, 151-156.	0.7	149

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37	Bridging groundwater models and decision support with a Bayesian network. <i>Water Resources Research</i> , 2013, 49, 6459-6473.	1.7	63
38	Partial least squares for efficient models of fecal indicator bacteria on Great Lakes beaches. <i>Journal of Environmental Management</i> , 2013, 114, 470-475.	3.8	19
39	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.	1.1	22
40	We Speak for the Data. <i>Ground Water</i> , 2013, 51, n/a-n/a.	0.7	4
41	Social.Water – A crowdsourcing tool for environmental data acquisition. <i>Computers and Geosciences</i> , 2012, 49, 164-169.	2.0	56
42	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.	0.7	16
43	MODFLOW-Style Parameters in Underdetermined Parameter Estimation. <i>Ground Water</i> , 2012, 50, 149-153.	0.7	4
44	On Constraining Pilot Point Calibration with Regularization in PEST. <i>Ground Water</i> , 2009, 47, 835-844.	0.7	65
45	Obtaining parsimonious hydraulic conductivity fields using head and transport observations: A Bayesian geostatistical parameter estimation approach. <i>Water Resources Research</i> , 2009, 45, .	1.7	53
46	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.	1.6	6
47	An interactive Bayesian geostatistical inverse protocol for hydraulic tomography. <i>Water Resources Research</i> , 2008, 44, .	1.7	71
48	Analyzing Bank Filtration by Deconvoluting Time Series of Electric Conductivity. <i>Ground Water</i> , 2007, 45, 318-328.	0.7	121
49	A Bayesian geostatistical transfer function approach to tracer test analysis. <i>Water Resources Research</i> , 2006, 42, .	1.7	39
50	Development of a joint hydrogeophysical inversion approach and application to a contaminated fractured aquifer. <i>Water Resources Research</i> , 2006, 42, .	1.7	41
51	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.	4.6	160
52	A Nested-Cell Approach for In Situ Remediation. <i>Ground Water</i> , 2006, 44, 266-274.	0.7	51
53	A parametric transfer function methodology for analyzing reactive transport in nonuniform flow. <i>Journal of Contaminant Hydrology</i> , 2006, 83, 27-41.	1.6	30
54	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.	4.6	242

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55	The Three-Point Problem, Vector Analysis and Extension to the N-Point Problem. Journal of Geoscience Education, 2005, 53, 257-262.	0.8	12
56	Mass-Transfer Limitations for Nitrate Removal in a Uranium-Contaminated Aquifer. Environmental Science & Technology, 2005, 39, 8453-8459.	4.6	36
57	Semi-analytical homogeneous anisotropic capture zone delineation. Journal of Hydrology, 2005, 312, 39-50.	2.3	42
58	An Application of Bayesian Inverse Methods to Vertical Deconvolution of Hydraulic Conductivity in a Heterogeneous Aquifer at Oak Ridge National Laboratory. Mathematical Geosciences, 2004, 36, 101-126.	0.9	39
59	Inverse Modeling with RZWQM2 to Predict Water Quality. Advances in Agricultural Systems Modeling, 0, , 327-363.	0.3	5