

# Michael J Friedel

## List of Publications by Year in descending order

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38  
papers

457  
citations

759055

12  
h-index

752573

20  
g-index

38  
all docs

38  
docs citations

38  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of four learning-based methods for predicting groundwater redox status. Journal of Hydrology, 2020, 580, 124200.	2.3	21
2	Estimated Ultimate Recovery Using the Digital Analogue Shale Model. , 2020, , .		0
3	Mapping fractional landscape soils and vegetation components from Hyperion satellite imagery using an unsupervised machine-learning workflow. International Journal of Digital Earth, 2018, 11, 670-690.	1.6	6
4	A self-organizing map approach to characterize hydrogeology of the fractured Serra-Geral transboundary aquifer. Hydrology Research, 2018, 49, 794-814.	1.1	12
5	Transport of Atrazine Versus Bromide and $\text{NO}_3^-$ in Sand. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	2
6	Estimation and scaling of hydrostratigraphic units: application of unsupervised machine learning and multivariate statistical techniques to hydrogeophysical data. Hydrogeology Journal, 2016, 24, 2103-2122.	0.9	7
7	Toward real-time three-dimensional mapping of surficial aquifers using a hybrid modeling approach. Hydrogeology Journal, 2016, 24, 211-229.	0.9	5
8	Transport of Atrazine and Dicamba through Silt and Loam Soils. Global Journal of Earth Science and Engineering, 2016, 3, 27-42.	0.1	0
9	Forecasting conditional climate-change using a hybrid approach. Environmental Modelling and Software, 2014, 52, 83-97.	1.9	6
10	Data-driven modeling of background and mine-related acidity and metals in river basins. Environmental Pollution, 2014, 184, 530-539.	3.7	3
11	Hybrid modeling of spatial continuity for application to numerical inverse problems. Environmental Modelling and Software, 2013, 43, 60-79.	1.9	12
12	Hybrid modeling to predict the economic feasibility of mining undiscovered porphyry copper deposits. Applied Soft Computing Journal, 2013, 13, 1016-1032.	4.1	4
13	Uncertainty Analysis in the Joint Inversion of Receiver Function and Surface-Wave Dispersion, Parana Basin, Southeast Brazil. Bulletin of the Seismological Society of America, 2013, 103, 1981-1992.	1.1	2
14	Data-driven modeling for groundwater exploration in fractured crystalline terrain, northeast Brazil. Hydrogeology Journal, 2012, 20, 1061-1080.	0.9	12
15	Data-driven modeling of surface temperature anomaly and solar activity trends. Environmental Modelling and Software, 2012, 37, 217-232.	1.9	31
16	Intelligent estimation of spatially distributed soil physical properties. Geoderma, 2012, 170, 1-10.	2.3	12
17	Hybrid analysis of multi-axis electromagnetic data for discrimination of munitions and explosives of concern. Geophysical Journal International, 2012, 190, 960-980.	1.0	3
18	Hillslope chemical weathering across Paranaí, Brazil: A data mining-GIS hybrid approach. Geomorphology, 2011, 132, 167-175.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Modeling hydrologic and geomorphic hazards across post-fire landscapes using a self-organizing map approach. <i>Environmental Modelling and Software</i> , 2011, 26, 1660-1674.	1.9	24
20	A data-driven approach for modeling post-fire debris-flow volumes and their uncertainty. <i>Environmental Modelling and Software</i> , 2011, 26, 1583-1598.	1.9	12
21	Climate Change Effects on Ecosystem Services in the United States – Issues of National and Global Security. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 17-24.	0.1	5
22	Regularized joint inverse estimation of extreme rainfall amounts in ungauged coastal basins of El Salvador. <i>Natural Hazards</i> , 2008, 46, 15-34.	1.6	4
23	Probable Flood Predictions in Ungauged Coastal Basins of El Salvador. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 321-332.	0.8	5
24	Biodegradation of Organic Chemicals in Soil/Water Microcosms System: Model Development. <i>Water, Air, and Soil Pollution</i> , 2007, 178, 131-143.	1.1	10
25	Biodegradation of PAHs and PCBs in Soils and Sludges. <i>Water, Air, and Soil Pollution</i> , 2007, 181, 281-296.	1.1	18
26	A Comparison of 18O <sup>18</sup> Composition of Water Extracted from Suction Lysimeters, Centrifugation, and Azeotropic Distillation. <i>Water, Air, and Soil Pollution</i> , 2007, 184, 63-75.	1.1	33
27	Predictive streamflow uncertainty in relation to calibration – constraint information, model complexity, and model bias. <i>International Journal of River Basin Management</i> , 2006, 4, 109-123.	1.5	5
28	RELIABILITY IN ESTIMATING URBAN GROUNDWATER RECHARGE THROUGH THE VADOSE ZONE. , 2006, , 169-182.		2
29	Effects of Coal-Bed Methane Discharge Waters on the Vegetation and Soil Ecosystem in Powder River Basin, Wyoming. <i>Water, Air, and Soil Pollution</i> , 2005, 168, 33-57.	1.1	47
30	Part 1: Vadose-Zone Column Studies of Toluene (Enhanced Bioremediation) in a Shallow Unconfined Aquifer. <i>Water, Air, and Soil Pollution</i> , 2005, 168, 325-357.	1.1	12
31	Part 2: A Field Study of Enhanced Remediation of Toluene in the Vadose Zone Using a Nutrient Solution. <i>Water, Air, and Soil Pollution</i> , 2005, 168, 359-389.	1.1	4
32	Coupled inverse modeling of vadose zone water, heat, and solute transport: calibration constraints, parameter nonuniqueness, and predictive uncertainty. <i>Journal of Hydrology</i> , 2005, 312, 148-175.	2.3	32
33	Relative stress conditions in an underground pillar, Homestake Mine, Lead, SD. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 1997, 34, 278.e1-278.e11.	2.6	1
34	Temporal imaging of mine-induced stress change using seismic tomography. <i>Engineering Geology</i> , 1997, 46, 131-141.	2.9	30
35	Tomographic imaging of coal pillar conditions: Observations and implications. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1996, 33, 279-290.	0.3	17
36	3-D tomographic imaging of anomalous stress conditions in a deep US gold mine. <i>Journal of Applied Geophysics</i> , 1996, 36, 1-17.	0.9	13

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37	3-D tomographic imaging of anomalous conditions in a deep silver mine. Journal of Applied Geophysics, 1995, 34, 1-21.	0.9	27
38	A geophysical field experiment for detecting and monitoring conductive fluids. The Leading Edge, 1993, 12, 930-937.	0.4	1