

# Sabine Attinger

## List of Publications by Year in descending order

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79  
papers

3,412  
citations

159585

30  
h-index

155660

55  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3628  
citing authors

#	ARTICLE	IF	CITATIONS
1	How to Find Aquifer Statistics Utilizing Pumping Tests? Two Field Studies Using welltestpy. Ground Water, 2022, 60, 137-144.	1.3	4
2	Disparate Seasonal Nitrate Export From Nested Heterogeneous Subcatchments Revealed With StorAge Selection Functions. Water Resources Research, 2022, 58, .	4.2	8
3	Characterizing Catchmentâ€Scale Nitrogen Legacies and Constraining Their Uncertainties. Water Resources Research, 2022, 58, .	4.2	8
4	From Dynamic Groundwater Level Measurements to Regional Aquifer Parametersâ€ Assessing the Power of Spectral Analysis. Water Resources Research, 2022, 58, .	4.2	8
5	A field evidence model: how to predict transport in heterogeneous aquifers at low investigation level. Hydrology and Earth System Sciences, 2021, 25, 1-15.	4.9	5
6	A Comparison of Six Transport Models of the MADEâ€ Experiment Implemented With Different Types of Hydraulic Data. Water Resources Research, 2021, 57, e2020WR028672.	4.2	3
7	Data driven high resolution modeling and spatial analyses of the COVID-19 pandemic in Germany. PLoS ONE, 2021, 16, e0254660.	2.5	10
8	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.	9.9	4
9	The extended generalized radial flow model and effective conductivity for truncated power law variograms. Advances in Water Resources, 2021, 156, 104027.	3.8	1
10	Neutrons on Rails: Transregional Monitoring of Soil Moisture and Snow Water Equivalent. Geophysical Research Letters, 2021, 48, .	4.0	14
11	Assessing the response of groundwater quantity and travel time distribution to 1.5, 2, and 3â€% global warming in a mesoscale central German basin. Hydrology and Earth System Sciences, 2020, 24, 1511-1526.	4.9	13
12	Challenges in Applying Machine Learning Models for Hydrological Inference: A Case Study for Flooding Events Across Germany. Water Resources Research, 2020, 56, e2019WR025924.	4.2	67
13	Trajectories of nitrate input and output in three nested catchments along a land use gradient. Hydrology and Earth System Sciences, 2019, 23, 3503-3524.	4.9	44
14	Influence of input and parameter uncertainty on the prediction of catchment-scale groundwater travel time distributions. Hydrology and Earth System Sciences, 2019, 23, 171-190.	4.9	24
15	A Critical Analysis of Transverse Dispersion Field Data. Ground Water, 2019, 57, 632-639.	1.3	27
16	A Comprehensive Distributed Hydrological Modeling Intercomparison to Support Process Representation and Data Collection Strategies. Water Resources Research, 2019, 55, 990-1010.	4.2	34
17	Revisitation of the dipole tracer test for heterogeneous porous formations. Advances in Water Resources, 2018, 115, 198-206.	3.8	11
18	Improved regional-scale groundwater representation by the coupling of the mesoscale Hydrologic Model (mHM v5.7) to the groundwater model OpenGeoSys (OGS). Geoscientific Model Development, 2018, 11, 1989-2007.	3.6	18

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19	The Bode hydrological observatory: a platform for integrated, interdisciplinary hydro-ecological research within the TERENO Harz/Central German Lowland Observatory. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	93
20	Toward seamless hydrologic predictions across spatial scales. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4323-4346.	4.9	81
21	Spatially distributed characterization of soil-moisture dynamics using travel-time distributions. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 549-570.	4.9	16
22	Effects of uncertainty in soil properties on simulated hydrological states and fluxes at different spatio-temporal scales. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2301-2320.	4.9	33
23	Multiscale evaluation of the Standardized Precipitation Index as a groundwater drought indicator. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1117-1131.	4.9	133
24	Debates – Stochastic subsurface hydrology from theory to practice: The relevance of stochastic subsurface hydrology to practical problems of contaminant transport and remediation. What is characterization and stochastic theory good for?. <i>Water Resources Research</i> , 2016, 52, 9228-9234.	4.2	38
25	Towards a filtered density function approach for reactive transport in groundwater. <i>Advances in Water Resources</i> , 2016, 90, 83-98.	3.8	13
26	Improving the realism of hydrologic model functioning through multivariate parameter estimation. <i>Water Resources Research</i> , 2016, 52, 7779-7792.	4.2	87
27	A time dependent mixing model to close PDF equations for transport in heterogeneous aquifers. <i>Advances in Water Resources</i> , 2016, 96, 55-67.	3.8	7
28	Extending Theis' solution: Using transient pumping tests to estimate parameters of aquifer heterogeneity. <i>Water Resources Research</i> , 2016, 52, 6156-6170.	4.2	25
29	Estimating transmissivity from single well pumping tests in heterogeneous aquifers. <i>Water Resources Research</i> , 2016, 52, 495-510.	4.2	22
30	Impact of heterogeneous permeability distribution on the groundwater flow systems of a small sedimentary basin. <i>Journal of Hydrology</i> , 2016, 532, 90-101.	5.4	20
31	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. <i>Journal of Hydrometeorology</i> , 2016, 17, 287-307.	1.9	120
32	Technical note: Analytical drawdown solution for steady-state pumping tests in two-dimensional isotropic heterogeneous aquifers. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1655-1667.	4.9	7
33	Accelerating advances in continental domain hydrologic modeling. <i>Water Resources Research</i> , 2015, 51, 10078-10091.	4.2	102
34	Computationally inexpensive identification of noninformative model parameters by sequential screening. <i>Water Resources Research</i> , 2015, 51, 6417-6441.	4.2	54
35	Is unique scaling of aquifer macrodispersivity supported by field data?. <i>Water Resources Research</i> , 2015, 51, 7662-7679.	4.2	76
36	Characterizing the impact of roughness and connectivity features of aquifer conductivity using Bayesian inversion. <i>Journal of Hydrology</i> , 2015, 531, 73-87.	5.4	10

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37	Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. <i>Plant and Soil</i> , 2015, 397, 1-16.	3.7	105
38	A Fokker-Planck approach for probability distributions of species concentrations transported in heterogeneous media. <i>Journal of Computational and Applied Mathematics</i> , 2015, 289, 241-252.	2.0	19
39	Estimating parameters of aquifer heterogeneity using pumping tests – implications for field applications. <i>Advances in Water Resources</i> , 2015, 83, 137-147.	3.8	20
40	Assessing the structural adequacy of alternative ecohydrological models using a pattern-oriented approach. <i>Ecological Modelling</i> , 2015, 316, 52-61.	2.5	5
41	Effect of parameter choice in root water uptake models – the arrangement of root hydraulic properties within the root architecture affects dynamics and efficiency of root water uptake. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4189-4206.	4.9	20
42	Generating random fields with a truncated power-law variogram: A comparison of several numerical methods. <i>Environmental Modelling and Software</i> , 2014, 55, 32-48.	4.5	44
43	Assessment of the impact of pore-scale mass-transfer restrictions on microbially-induced stable-isotope fractionation. <i>Advances in Water Resources</i> , 2014, 74, 79-90.	3.8	11
44	Incorporating dynamic root growth enhances the performance of Noah-MP at two contrasting winter wheat field sites. <i>Water Resources Research</i> , 2014, 50, 1337-1356.	4.2	47
45	How Do Earthworms, Soil Texture and Plant Composition Affect Infiltration along an Experimental Plant Diversity Gradient in Grassland?. <i>PLoS ONE</i> , 2014, 9, e98987.	2.5	91
46	Parameter Importance in FRAP Acquisition and Analysis: A Simulation Approach. <i>Biophysical Journal</i> , 2013, 104, 2089-2097.	0.5	11
47	Assessing the validity of a lower-dimensional representation of fractures for numerical and analytical investigations. <i>Advances in Water Resources</i> , 2013, 56, 35-48.	3.8	14
48	Implications of distributed hydrologic model parameterization on water fluxes at multiple scales and locations. <i>Water Resources Research</i> , 2013, 49, 360-379.	4.2	226
49	Multiresponse, multiobjective calibration as a diagnostic tool to compare accuracy and structural limitations of five coupled soil-plant models and CLM3.5. <i>Water Resources Research</i> , 2013, 49, 8200-8221.	4.2	40
50	The Extended Thiem's solution: Including the impact of heterogeneity. <i>Water Resources Research</i> , 2012, 48, .	4.2	15
51	Predicting predominant thermal convection in thermohaline flows in saturated porous media. <i>Advances in Water Resources</i> , 2012, 49, 23-36.	3.8	3
52	Are Assumptions about the Model Type Necessary in Reaction-Diffusion Modeling? A FRAP Application. <i>Biophysical Journal</i> , 2011, 100, 1178-1188.	0.5	21
53	The stability of density-driven flows in saturated heterogeneous porous media. <i>Advances in Water Resources</i> , 2011, 34, 1464-1482.	3.8	7
54	Accuracy of numerical simulations of contaminant transport in heterogeneous aquifers: A comparative study. <i>Advances in Water Resources</i> , 2011, 34, 47-61.	3.8	42

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55	The effect of dispersion on the stability of density-driven flows in saturated homogeneous porous media. <i>Advances in Water Resources</i> , 2011, 34, 417-432.	3.8	12
56	Modeling Soil-Coupled Water Uptake of Multiple Root Systems with Automatic Time Stepping. <i>Vadose Zone Journal</i> , 2011, 10, 727-735.	2.2	15
57	The effects of spatial discretization and model parameterization on the prediction of extreme runoff characteristics. <i>Journal of Hydrology</i> , 2010, 392, 54-69.	5.4	57
58	Structural properties of continuous representations of Boolean functions for gene network modelling. <i>Automatica</i> , 2010, 46, 2047-2052.	5.0	10
59	Implementing small scale processes at the soil-plant interface – the role of root architectures for calculating root water uptake profiles. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 279-289.	4.9	58
60	Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. <i>PLoS ONE</i> , 2010, 5, e13382.	2.5	95
61	Linear Exchange Model for the Description of Mass Transfer Limited Bioavailability at the Pore Scale. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2064-2071.	10.0	29
62	Multiscale parameter regionalization of a grid-based hydrologic model at the mesoscale. <i>Water Resources Research</i> , 2010, 46, .	4.2	452
63	Uncertainty in parameterisation and model structure affect simulation results in coupled ecohydrological models. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1789-1807.	4.9	24
64	Homogenization of the transport behavior of nonlinearly adsorbing pollutants in physically and chemically heterogeneous aquifers. <i>Advances in Water Resources</i> , 2009, 32, 767-777.	3.8	11
65	An extended stability criterion for density-driven flows in homogeneous porous media. <i>Advances in Water Resources</i> , 2009, 32, 796-808.	3.8	17
66	Upscaling of the advection-diffusion-reaction equation with Monod reaction. <i>Advances in Water Resources</i> , 2009, 32, 1336-1351.	3.8	61
67	Beyond Thiem: A new method for interpreting large scale pumping tests in heterogeneous aquifers. <i>Water Resources Research</i> , 2008, 44, .	4.2	18
68	Exact transverse macro dispersion coefficients for transport in heterogeneous porous media. <i>Stochastic Environmental Research and Risk Assessment</i> , 2004, 18, 9-15.	4.0	58
69	Coarse Graining for Upscaling of Flow in Heterogeneous Porous Media. <i>Multiscale Modeling and Simulation</i> , 2004, 2, 269-301.	1.6	28
70	Generalized Coarse Graining Procedures for Flow in Porous Media. <i>Computational Geosciences</i> , 2003, 7, 253-273.	2.4	50
71	Large Scale Mixing for Immiscible Displacement in Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2003, 51, 287-314.	2.6	28
72	Multiscale Modeling of Nonlinearly Adsorbing Solute Transport. <i>Multiscale Modeling and Simulation</i> , 2003, 1, 408-431.	1.6	5

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73	Filtering procedures for flow in heterogeneous porous media: numerical results. <i>Computing and Visualization in Science</i> , 2002, 5, 67-72.	1.2	14
74	Macrodispersion in a radially diverging flow field with finite Peclet Numbers: 2. Homogenization theory approach. <i>Water Resources Research</i> , 2001, 37, 495-505.	4.2	10
75	Macrodispersion in a radially diverging flow field with finite Peclet Numbers: 1. Perturbation theory approach. <i>Water Resources Research</i> , 2001, 37, 481-493.	4.2	18
76	Transport of a decay chain in homogenous porous media: analytical solutions. <i>Journal of Contaminant Hydrology</i> , 2001, 49, 217-239.	3.3	72
77	Temporal behavior of a solute cloud in a heterogeneous porous medium: 1. Point-like injection. <i>Water Resources Research</i> , 2000, 36, 3591-3604.	4.2	155
78	Temporal behavior of a solute cloud in a heterogeneous porous medium: 2. Spatially extended injection. <i>Water Resources Research</i> , 2000, 36, 3605-3614.	4.2	53
79	Temporal behaviour of a solute cloud in a chemically heterogeneous porous medium. <i>Journal of Fluid Mechanics</i> , 1999, 386, 77-104.	3.4	69