Anneli Guthke

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8570289/publications.pdf

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18	564	840776 11	888059 17
papers	citations	h-index	g-index

26	26	26	730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameter estimation by ensemble Kalman filters with transformed data: Approach and application to hydraulic tomography. Water Resources Research, 2012, 48, .	4.2	136
2	Model selection on solid ground: Rigorous comparison of nine ways to evaluate <scp>B</scp>ayesian model evidence. Water Resources Research, 2014, 50, 9484-9513.	4.2	107
3	The hydrologistâ€™s guide to Bayesian model selection, averaging and combination. Journal of Hydrology, 2019, 572, 96-107.	5.4	49
4	Bayesian model averaging to explore the worth of data for soilâ€plant model selection and prediction. Water Resources Research, 2015, 51, 2825-2846.	4.2	43
5	Finding the right balance between groundwater model complexity and experimental effort via Bayesian model selection. Journal of Hydrology, 2015, 531, 96-110.	5.4	41
6	The comprehensive differential split-sample test: A stress-test for hydrological model robustness under climate variability. Journal of Hydrology, 2019, 573, 501-515.	5.4	40
7	Defensible Model Complexity: A Call for Dataâ€Based and Goalâ€Oriented Model Choice. Ground Water, 2017, 55, 646-650.	1.3	35
8	A statistical concept to assess the uncertainty in Bayesian model weights and its impact on model ranking. Water Resources Research, 2015, 51, 7524-7546.	4.2	30
9	Entropy-Based Experimental Design for Optimal Model Discrimination in the Geosciences. Entropy, 2016, 18, 409.	2.2	27
10	Bayesian Model Selection Helps To Choose Objectively between Thermodynamic Models: A Demonstration of Selecting a Viscosity Model Based on Entropy Scaling. Industrial & Engineering Chemistry Research, 2016, 55, 10191-10207.	3.7	14
11	Bayesian selection of hydro-morphodynamic models under computational time constraints. Advances in Water Resources, 2018, 117, 53-64.	3.8	14
12	Diagnosis of Model Errors With a Sliding Timeâ€Window Bayesian Analysis. Water Resources Research, 2022, 58, .	4.2	7
13	A Maximum-Entropy Method to Estimate Discrete Distributions from Samples Ensuring Nonzero Probabilities. Entropy, 2018, 20, 601.	2.2	6
14	Bayesian Model Weighting: The Many Faces of Model Averaging. Water (Switzerland), 2020, 12, 309.	2.7	5
15	Strategies for Simplifying Reactive Transport Models: A Bayesian Model Comparison. Water Resources Research, 2020, 56, e2020WR028100.	4.2	3
16	The Four Ways to Consider Measurement Noise in Bayesian Model Selection â€And Which One to Choose. Water Resources Research, 2021, 57, e2021WR030391.	4.2	3
17	Overcoming the Modelâ€Dataâ€Fit Problem in Porous Media: A Quantitative Method to Compare Invasionâ€Percolation Models to Highâ€Resolution Data. Water Resources Research, 2021, 57, e2021WR029986.	4.2	2
18	Diagnosing similarities in probabilistic multi-model ensembles: an application to soilâ€“plant-growth-modeling. Modeling Earth Systems and Environment, 0, , .	3.4	2