

Tiangang Cui

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

605
citations

840776

11
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven model reduction for the Bayesian solution of inverse problems. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 102, 966-990.	2.8	122
2	Dimension-independent likelihood-informed MCMC. <i>Journal of Computational Physics</i> , 2016, 304, 109-137.	3.8	112
3	Multifidelity importance sampling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 300, 490-509.	6.6	91
4	Optimal Low-rank Approximations of Bayesian Linear Inverse Problems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A2451-A2487.	2.8	70
5	Scalable posterior approximations for large-scale Bayesian inverse problems via likelihood-informed parameter and state reduction. <i>Journal of Computational Physics</i> , 2016, 315, 363-387.	3.8	34
6	Extraction of high-resolution structural orientations from digital data: A Bayesian approach. <i>Journal of Structural Geology</i> , 2019, 122, 106-115.	2.3	19
7	Bayesian Inverse Problems with L_1 Priors: A Randomize-Then-Optimize Approach. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S140-S166.	2.8	17
8	On dimension reduction in Gaussian filters. <i>Inverse Problems</i> , 2016, 32, 045003.	2.0	15
9	Certified dimension reduction in nonlinear Bayesian inverse problems. <i>Mathematics of Computation</i> , 2022, 91, 1789-1835.	2.1	15
10	Goal-Oriented Optimal Approximations of Bayesian Linear Inverse Problems. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, S167-S196.	2.8	14
11	A posteriori stochastic correction of reduced models in delayed-acceptance MCMC, with application to multiphase subsurface inverse problems. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 118, 578-605.	2.8	14
12	Rapid near-atomic resolution single-particle 3D reconstruction with SIMPLE. <i>Journal of Structural Biology</i> , 2018, 204, 172-181.	2.8	11
13	Optimization Methods for Inverse Problems. <i>MATRIX Book Series</i> , 2019, , 121-140.	0.2	11
14	Deep Composition of Tensor-Trains Using Squared Inverse Rosenblatt Transports. <i>Foundations of Computational Mathematics</i> , 2022, 22, 1863-1922.	2.5	10
15	Scalable Optimization-Based Sampling on Function Space. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A1317-A1347.	2.8	9
16	Data-free likelihood-informed dimension reduction of Bayesian inverse problems. <i>Inverse Problems</i> , 2021, 37, 045009.	2.0	7
17	Characterization of Parameters for a Spatially Heterogenous Aquifer from Pumping Test Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 1203-1213.	1.9	6
18	Uncertainty Quantification for Stream Depletion Tests. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 1581-1590.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Optimization-Based Markov Chain Monte Carlo Methods for Nonlinear Hierarchical Statistical Inverse Problems. SIAM-ASA Journal on Uncertainty Quantification, 2021, 9, 29-64.	2.0	4
20	Identification of community structure-based brain states and transitions using functional MRI. NeuroImage, 2021, 244, 118635.	4.2	4
21	A non-linear reverse-engineering method for inferring genetic regulatory networks. PeerJ, 2020, 8, e9065.	2.0	4
22	Semivariogram methods for modeling Whittle's Matérn priors in Bayesian inverse problems. Inverse Problems, 2020, 36, 055006.	2.0	3
23	USING PARALLEL MARKOV CHAIN MONTE CARLO TO QUANTIFY UNCERTAINTIES IN GEOTHERMAL RESERVOIR CALIBRATION. , 2019, 9, 295-310.		3
24	Pragmatic Approach to Calibrating Distributed Parameter Groundwater Models from Pumping Test Data Using Adaptive Delayed Acceptance MCMC. Journal of Hydrologic Engineering - ASCE, 2016, 21, 06015011.	1.9	1
25	Randomized reduced forward models for efficient Metropolis-Hastings MCMC, with application to subsurface fluid flow and capacitance tomography. GEM - International Journal on Geomathematics, 2020, 11, 1.	1.6	1
26	Mathematical Modelling of Genetic Network for Regulating the Fate Determination of Hematopoietic Stem Cells. , 2018, , .		0