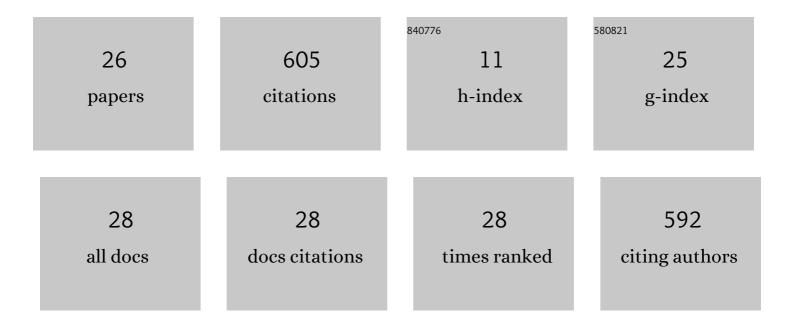
Tiangang Cui

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Deep Composition of Tensor-Trains Using Squared Inverse Rosenblatt Transports. Foundations of Computational Mathematics, 2022, 22, 1863-1922.	2.5	10
2	Certified dimension reduction in nonlinear Bayesian inverse problems. Mathematics of Computation, 2022, 91, 1789-1835.	2.1	15
3	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
4	Data-free likelihood-informed dimension reduction of Bayesian inverse problems. Inverse Problems, 2021, 37, 045009.	2.0	7
5	Identification of community structure-based brain states and transitions using functional MRI. NeuroImage, 2021, 244, 118635.	4.2	4
6	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
7	Semivariogram methods for modeling Whittle–Matérn priors in Bayesian inverse problems. Inverse Problems, 2020, 36, 055006.	2.0	3
8	Scalable Optimization-Based Sampling on Function Space. SIAM Journal of Scientific Computing, 2020, 42, A1317-A1347.	2.8	9
9	A non-linear reverse-engineering method for inferring genetic regulatory networks. PeerJ, 2020, 8, e9065.	2.0	4
10	Extraction of high-resolution structural orientations from digital data: A Bayesian approach. Journal of Structural Geology, 2019, 122, 106-115.	2.3	19
11	A posteriori stochastic correction of reduced models in delayedâ€acceptance MCMC, with application to multiphase subsurface inverse problems. International Journal for Numerical Methods in Engineering, 2019, 118, 578-605.	2.8	14
12	Optimization Methods for Inverse Problems. MATRIX Book Series, 2019, , 121-140.	0.2	11
13	USING PARALLEL MARKOV CHAIN MONTE CARLO TO QUANTIFY UNCERTAINTIES IN GEOTHERMAL RESERVOIR CALIBRATION. , 2019, 9, 295-310.		3
14	Mathematical Modelling of Genetic Network for Regulating the Fate Determination of Hematopoietic Stem Cells. , 2018, , .		0
15	Rapid near-atomic resolution single-particle 3D reconstruction with SIMPLE. Journal of Structural Biology, 2018, 204, 172-181.	2.8	11
16	Goal-Oriented Optimal Approximations of Bayesian Linear Inverse Problems. SIAM Journal of Scientific Computing, 2017, 39, S167-S196.	2.8	14
17	Bayesian Inverse Problems with \$I_1\$ Priors: A Randomize-Then-Optimize Approach. SIAM Journal of Scientific Computing, 2017, 39, S140-S166.	2.8	17
18	Scalable posterior approximations for large-scale Bayesian inverse problems via likelihood-informed parameter and state reduction. Journal of Computational Physics, 2016, 315, 363-387.	3.8	34

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#	Article	IF	CITATIONS
19	On dimension reduction in Gaussian filters. Inverse Problems, 2016, 32, 045003.	2.0	15
20	Multifidelity importance sampling. Computer Methods in Applied Mechanics and Engineering, 2016, 300, 490-509.	6.6	91
21	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
22	Dimension-independent likelihood-informed MCMC. Journal of Computational Physics, 2016, 304, 109-137.	3.8	112
23	Optimal Low-rank Approximations of Bayesian Linear Inverse Problems. SIAM Journal of Scientific Computing, 2015, 37, A2451-A2487.	2.8	70
24	Dataâ€driven model reduction for the Bayesian solution of inverse problems. International Journal for Numerical Methods in Engineering, 2015, 102, 966-990.	2.8	122
25	Characterization of Parameters for a Spatially Heterogenous Aquifer from Pumping Test Data. Journal of Hydrologic Engineering - ASCE, 2014, 19, 1203-1213.	1.9	6
26	Uncertainty Quantification for Stream Depletion Tests. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1581-1590.	1.9	4