

Matthew D Parno

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

492
citations

1163117

8
h-index

839539

18
g-index

27
all docs

27
docs citations

27
times ranked

482
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113561119.	7.1	136
2	The third Sandia fracture challenge: predictions of ductile fracture in additively manufactured metal. International Journal of Fracture, 2019, 218, 5-61.	2.2	62
3	Transport Map Accelerated Markov Chain Monte Carlo. SIAM-ASA Journal on Uncertainty Quantification, 2018, 6, 645-682.	2.0	59
4	Sampling via Measure Transport: An Introduction. , 2016, , 1-41.		44
5	Applicability of surrogates to improve efficiency of particle swarm optimization for simulation-based problems. Engineering Optimization, 2012, 44, 521-535.	2.6	38
6	A decision making framework with MODFLOW-FMP2 via optimization: Determining trade-offs in crop selection. Environmental Modelling and Software, 2015, 69, 280-291.	4.5	20
7	A Multiscale Strategy for Bayesian Inference Using Transport Maps. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 1160-1190.	2.0	17
8	A probabilistic optimal sensor design approach for structural health monitoring using risk-weighted χ^2 -divergence. Mechanical Systems and Signal Processing, 2021, 161, 107920.	8.0	14
9	Sampling via Measure Transport: An Introduction. , 2017, , 785-825.		11
10	MUQ: The MIT Uncertainty Quantification Library. Journal of Open Source Software, 2021, 6, 3076.	4.6	10
11	ParticLS: Object-oriented software for discrete element methods and peridynamics. Computational Particle Mechanics, 2022, 9, 1-13.	3.0	9
12	Accounting for model form uncertainty in Bayesian calibration of linear dynamic systems. Mechanical Systems and Signal Processing, 2022, 171, 108871.	8.0	9
13	Bayesian calibration of multi-level model with unobservable distributed response and application to miter gates. Mechanical Systems and Signal Processing, 2022, 170, 108852.	8.0	6
14	Improved workflow for unguided multiphase image segmentation. Computers and Geosciences, 2018, 118, 91-99.	4.2	4
15	Remote Measurement of Sea Ice Dynamics With Regularized Optimal Transport. Geophysical Research Letters, 2019, 46, 5341-5350.	4.0	4
16	COVID-19 infection data encode a dynamic reproduction number in response to policy decisions with secondary wave implications. Scientific Reports, 2021, 11, 10875.	3.3	4
17	Bonded Discrete Element Simulations of Sea Ice With Non-Local Failure: Applications to Nares Strait. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
18	Development and Use of Mathematical Models and Software Frameworks for Integrated Analysis of Agricultural Systems and Associated Water Use Impacts. AIMS Agriculture and Food, 2016, 1, 208-226.	1.6	3

#	ARTICLE	IF	CITATIONS
19	A Bayesian Approach for Inferring Sea Ice Loads. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	1
20	Observations of Stress&Strain in Drifting Sea Ice at Floe Scale. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	1
21	Characterizing Prediction Uncertainty in Agricultural Modeling via a Coupled Statistical&Physical Framework. Modelling, 2021, 2, 753-775.	1.4	0