Matthew D Parno

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6902354/publications.pdf

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21	492	1163117 8	839539 18
papers	citations	h-index	g-index

27	27	27	482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ParticLS: Object-oriented software for discrete element methods and peridynamics. Computational Particle Mechanics, 2022, 9, 1-13.	3.0	9
2	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
3	Accounting for model form uncertainty in Bayesian calibration of linear dynamic systems. Mechanical Systems and Signal Processing, 2022, 171, 108871.	8.0	9
4	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
5	Observations of Stressâ€Strain in Drifting Sea Ice at Floe Scale. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	1
6	Bonded Discrete Element Simulations of Sea Ice With Nonâ€Local Failure: Applications to Nares Strait. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
7	A Bayesian Approach for Inferring Sea Ice Loads. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	1
8	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
9	A probabilistic optimal sensor design approach for structural health monitoring using risk-weighted<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si42.svg"><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:math>-divergence. Mechanical Systems and Signal Processing, 2021, 161, 107920.	8.0	14
10	Characterizing Prediction Uncertainty in Agricultural Modeling via a Coupled Statisticalâ€“Physical Framework. Modelling, 2021, 2, 753-775.	1.4	0
11	MUQ: The MIT Uncertainty Quantification Library. Journal of Open Source Software, 2021, 6, 3076.	4.6	10
12	The third Sandia fracture challenge: predictions of ductile fracture in additively manufactured metal. International Journal of Fracture, 2019, 218, 5-61.	2.2	62
13	Remote Measurement of Sea Ice Dynamics With Regularized Optimal Transport. Geophysical Research Letters, 2019, 46, 5341-5350.	4.0	4
14	Transport Map Accelerated Markov Chain Monte Carlo. SIAM-ASA Journal on Uncertainty Quantification, 2018, 6, 645-682.	2.0	59
15	Improved workflow for unguided multiphase image segmentation. Computers and Geosciences, 2018, 118, 91-99.	4.2	4
16	Sampling via Measure Transport: An Introduction. , 2017, , 785-825.		11
17	A Multiscale Strategy for Bayesian Inference Using Transport Maps. SIAM-ASA Journal on Uncertainty Quantification, 2016, 4, 1160-1190.	2.0	17
18	Sampling via Measure Transport: An Introduction. , 2016, , 1-41.		44

#	Article	IF	Citations
19	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
20	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
21	Applicability of surrogates to improve efficiency of particle swarm optimization for simulation-based problems. Engineering Optimization, 2012, 44, 521-535.	2.6	38