Ramin Bostanabad

List of Publications by Year
in descending order

19	1,239	623734 14	888059 17
papers	citations	h-index	g-index

19	19	19	977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mosaic flows: A transferable deep learning framework for solving PDEs on unseen domains. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114424.	6.6	19
2	Data Centric Design: A New Approach to Design of Microstructural Material Systems. Engineering, 2022, 10, 89-98.	6.7	18
3	Data Fusion With Latent Map Gaussian Processes. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	14
4	Reduced-order multiscale modeling of plastic deformations in 3D alloys with spatially varying porosity by deflated clustering analysis. Computational Mechanics, 2022, 70, 517-548.	4.0	7
5	Deep learning predicts boiling heat transfer. Scientific Reports, 2021, 11, 5622.	3.3	36
6	Evolutionary Gaussian Processes. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	8
7	Latent map Gaussian processes for mixed variable metamodeling. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114128.	6.6	12
8	Reconstruction of 3D Microstructures from 2D Images via Transfer Learning. CAD Computer Aided Design, 2020, 128, 102906.	2.7	52
9	Multiscale simulation of fiber composites with spatially varying uncertainties. , 2020, , 355-384.		3
10	Globally Approximate Gaussian Processes for Big Data With Application to Data-Driven Metamaterials Design. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	42
11	A numerical Bayesian-calibrated characterization method for multiscale prepreg preforming simulations with tension-shear coupling. Composites Science and Technology, 2019, 170, 15-24.	7.8	36
12	Computational microstructure characterization and reconstruction: Review of the state-of-the-art techniques. Progress in Materials Science, 2018, 95, 1-41.	32.8	252
13	Leveraging the nugget parameter for efficient Gaussian process modeling. International Journal for Numerical Methods in Engineering, 2018, 114, 501-516.	2.8	48
14	Uncertainty quantification in multiscale simulation of woven fiber composites. Computer Methods in Applied Mechanics and Engineering, 2018, 338, 506-532.	6.6	90
15	A framework for data-driven analysis of materials under uncertainty: Countering the curse of dimensionality. Computer Methods in Applied Mechanics and Engineering, 2017, 320, 633-667.	6.6	350
16	Characterization of the Optical Properties of Turbid Media by Supervised Learning of Scattering Patterns. Scientific Reports, 2017, 7, 15259.	3.3	17
17	Enhanced Gaussian Process Metamodeling and Collaborative Optimization for Vehicle Suspension Design Optimization. , 2017, , .		11
18	Characterization and reconstruction of 3D stochastic microstructures via supervised learning. Journal of Microscopy, 2016, 264, 282-297.	1.8	58

#	Article	IF	Citations
19	Stochastic microstructure characterization and reconstruction via supervised learning. Acta Materialia, 2016, 103, 89-102.	7.9	166