

# Ramin Bostanabad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1333990/publications.pdf>

Version: 2024-02-01

19  
papers

1,239  
citations

623734

14  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

977  
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for data-driven analysis of materials under uncertainty: Countering the curse of dimensionality. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 320, 633-667.	6.6	350
2	Computational microstructure characterization and reconstruction: Review of the state-of-the-art techniques. <i>Progress in Materials Science</i> , 2018, 95, 1-41.	32.8	252
3	Stochastic microstructure characterization and reconstruction via supervised learning. <i>Acta Materialia</i> , 2016, 103, 89-102.	7.9	166
4	Uncertainty quantification in multiscale simulation of woven fiber composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 338, 506-532.	6.6	90
5	Characterization and reconstruction of 3D stochastic microstructures via supervised learning. <i>Journal of Microscopy</i> , 2016, 264, 282-297.	1.8	58
6	Reconstruction of 3D Microstructures from 2D Images via Transfer Learning. <i>CAD Computer Aided Design</i> , 2020, 128, 102906.	2.7	52
7	Leveraging the nugget parameter for efficient Gaussian process modeling. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 114, 501-516.	2.8	48
8	Globally Approximate Gaussian Processes for Big Data With Application to Data-Driven Metamaterials Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019, 141, .	2.9	42
9	A numerical Bayesian-calibrated characterization method for multiscale prepreg preforming simulations with tension-shear coupling. <i>Composites Science and Technology</i> , 2019, 170, 15-24.	7.8	36
10	Deep learning predicts boiling heat transfer. <i>Scientific Reports</i> , 2021, 11, 5622.	3.3	36
11	Mosaic flows: A transferable deep learning framework for solving PDEs on unseen domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114424.	6.6	19
12	Data Centric Design: A New Approach to Design of Microstructural Material Systems. <i>Engineering</i> , 2022, 10, 89-98.	6.7	18
13	Characterization of the Optical Properties of Turbid Media by Supervised Learning of Scattering Patterns. <i>Scientific Reports</i> , 2017, 7, 15259.	3.3	17
14	Data Fusion With Latent Map Gaussian Processes. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2022, 144, .	2.9	14
15	Latent map Gaussian processes for mixed variable metamodeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114128.	6.6	12
16	Enhanced Gaussian Process Metamodeling and Collaborative Optimization for Vehicle Suspension Design Optimization. , 2017, , .		11
17	Evolutionary Gaussian Processes. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021, 143, .	2.9	8
18	Reduced-order multiscale modeling of plastic deformations in 3D alloys with spatially varying porosity by deflated clustering analysis. <i>Computational Mechanics</i> , 2022, 70, 517-548.	4.0	7

#	ARTICLE	IF	CITATIONS
19	Multiscale simulation of fiber composites with spatially varying uncertainties. , 2020, , 355-384.		3