

# Anh Tran

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

336  
citations

840776

11  
h-index

1058476

14  
g-index

19  
all docs

19  
docs citations

19  
times ranked

233  
citing authors

#	ARTICLE	IF	CITATIONS
1	pBO-2GP-3B: A batch parallel known/unknown constrained Bayesian optimization with feasibility classification and its applications in computational fluid dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 827-852.	6.6	47
2	Multi-fidelity machine-learning with uncertainty quantification and Bayesian optimization for materials design: Application to ternary random alloys. <i>Journal of Chemical Physics</i> , 2020, 153, 074705.	3.0	45
3	WearGP: A computationally efficient machine learning framework for local erosive wear predictions via nodal Gaussian processes. <i>Wear</i> , 2019, 422-423, 9-26.	3.1	34
4	Constrained mixed-integer Gaussian mixture Bayesian optimization and its applications in designing fractal and auxetic metamaterials. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 2131-2154.	3.5	34
5	sMF-BO-2CoGP: A Sequential Multi-Fidelity Constrained Bayesian Optimization Framework for Design Applications. <i>Journal of Computing and Information Science in Engineering</i> , 2020, 20, .	2.7	29
6	An active learning high-throughput microstructure calibration framework for solving inverse structure-process problems in materials informatics. <i>Acta Materialia</i> , 2020, 194, 80-92.	7.9	27
7	Data-driven high-fidelity 2D microstructure reconstruction via non-local patch-based image inpainting. <i>Acta Materialia</i> , 2019, 178, 207-218.	7.9	24
8	Computational Optimization Study of Transcatheter Aortic Valve Leaflet Design Using Porcine and Bovine Leaflets. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	21
9	Solving Stochastic Inverse Problems for Property-Structure Linkages Using Data-Consistent Inversion and Machine Learning. <i>Jom</i> , 2021, 73, 72-89.	1.9	16
10	An Efficient First-Principles Saddle Point Searching Method Based on Distributed Kriging Metamodels. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2018, 4, .	1.1	14
11	Quantifying uncertainty in the process-structure relationship for Al-Cu solidification. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 064005.	2.0	14
12	aphBO-2GP-3B: a budgeted asynchronous parallel multi-acquisition functions for constrained Bayesian optimization on high-performing computing architecture. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1.	3.5	8
13	sBF-BO-2CoGP: A Sequential Bi-Fidelity Constrained Bayesian Optimization for Design Applications. , 2019, , .		7
14	A Stochastic Reduced-Order Model for Statistical Microstructure Descriptors Evolution. <i>Journal of Computing and Information Science in Engineering</i> , 2022, 22, .	2.7	3
15	2D Microstructure Reconstruction for SEM via Non-local Patch-Based Image Inpainting. <i>Minerals, Metals and Materials Series</i> , 2021, , 495-506.	0.4	1
16	Solving Inverse Problems for Process-Structure Linkages Using Asynchronous Parallel Bayesian Optimization. <i>Minerals, Metals and Materials Series</i> , 2021, , 481-492.	0.4	0