Maruti Kumar Mudunuru

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3429056/publications.pdf

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18	270	933447 10	940533 16
papers	citations	h-index	g-index

22	22	22	274
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced-order modeling through machine learning and graph-theoretic approaches for brittle fracture applications. Computational Materials Science, 2019, 157, 87-98.	3.0	33
2	Unsupervised machine learning based on non-negative tensor factorization for analyzing reactive-mixing. Journal of Computational Physics, 2019, 395, 85-104.	3.8	28
3	Explore Spatioâ€Temporal Learning of Large Sample Hydrology Using Graph Neural Networks. Water Resources Research, 2021, 57, e2021WR030394.	4.2	27
4	A numerical framework for diffusion-controlled bimolecular-reactive systems to enforce maximum principles and the non-negative constraint. Journal of Computational Physics, 2013, 253, 278-307.	3.8	24
5	On enforcing maximum principles and achieving element-wise species balance for advectionâ€“diffusionâ€“reaction equations under the finite element method. Journal of Computational Physics, 2016, 305, 448-493.	3.8	22
6	Material degradation due to moisture and temperature. Part 1: mathematical model, analysis, and analytical solutions. Continuum Mechanics and Thermodynamics, 2016, 28, 1847-1885.	2.2	20
7	Regression-based reduced-order models to predict transient thermal output for enhanced geothermal systems. Geothermics, 2017, 70, 192-205.	3.4	20
8	Machine learning to identify geologic factors associated with production in geothermal fields: a case-study using 3D geologic data, Brady geothermal field, Nevada. Geothermal Energy, 2021, 9, .	1.9	17
9	A framework for coupled deformationâ€“diffusion analysis with application to degradation/healing. International Journal for Numerical Methods in Engineering, 2012, 89, 1144-1170.	2.8	14
10	Using Machine Learning to Discern Eruption in Noisy Environments: A Case Study Using CO2â€Driven Coldâ€Water Geyser in ChimayÃ³, New Mexico. Seismological Research Letters, 2019, 90, 591-603.	1.9	13
11	Surrogate Models for Estimating Failure in Brittle and Quasi-Brittle Materials. Applied Sciences (Switzerland), 2019, 9, 2706.	2.5	11
12	Machine learning to discover mineral trapping signatures due to CO2 injection. International Journal of Greenhouse Gas Control, 2021, 109, 103382.	4.6	11
13	Sequential geophysical and flow inversion to characterize fracture networks in subsurface systems. Statistical Analysis and Data Mining, 2017, 10, 326-342.	2.8	10
14	A comparative study of machine learning models for predicting the state of reactive mixing. Journal of Computational Physics, 2021, 432, 110147.	3.8	9
15	Scalable time-series feature engineering framework to understand multiphase flow using acoustic signals. Proceedings of Meetings on Acoustics, 2017, , .	0.3	3
16	Physics-informed machine learning models for predicting the progress of reactive-mixing. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113560.	6.6	3
17	Deep learning to estimate permeability using geophysical data. Advances in Water Resources, 2022, 167, 104272.	3.8	3
18	PFLOTRAN-SIP: A PFLOTRAN Module for Simulating Spectral-Induced Polarization of Electrical Impedance Data. Energies, 2020, 13, 6552.	3.1	2