

Maziar Raissi

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

8,094
citations

759055

12
h-index

1058333

14
g-index

15
all docs

15
docs citations

15
times ranked

3728
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics-informed neural networks: A deep learning framework for solving forward and inverse problems involving nonlinear partial differential equations. <i>Journal of Computational Physics</i> , 2019, 378, 686-707.	1.9	4,963
2	Hidden fluid mechanics: Learning velocity and pressure fields from flow visualizations. <i>Science</i> , 2020, 367, 1026-1030.	6.0	846
3	Hidden physics models: Machine learning of nonlinear partial differential equations. <i>Journal of Computational Physics</i> , 2018, 357, 125-141.	1.9	739
4	Machine learning of linear differential equations using Gaussian processes. <i>Journal of Computational Physics</i> , 2017, 348, 683-693.	1.9	343
5	A physics-informed deep learning framework for inversion and surrogate modeling in solid mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 379, 113741.	3.4	340
6	Deep learning of vortex-induced vibrations. <i>Journal of Fluid Mechanics</i> , 2019, 861, 119-137.	1.4	256
7	Inferring solutions of differential equations using noisy multi-fidelity data. <i>Journal of Computational Physics</i> , 2017, 335, 736-746.	1.9	202
8	Numerical Gaussian Processes for Time-Dependent and Nonlinear Partial Differential Equations. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A172-A198.	1.3	162
9	Systems biology informed deep learning for inferring parameters and hidden dynamics. <i>PLoS Computational Biology</i> , 2020, 16, e1007575.	1.5	133
10	Deep learning of turbulent scalar mixing. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	39
11	Machine Learning of Space-Fractional Differential Equations. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A2485-A2509.	1.3	32
12	Parametric Gaussian process regression for big data. <i>Computational Mechanics</i> , 2019, 64, 409-416.	2.2	22
13	Modeling, Analysis and Physics Informed Neural Network approaches for studying the dynamics of COVID-19 involving human-human and human-pathogen interaction. <i>Computational and Mathematical Biophysics</i> , 2022, 10, 1-17.	0.6	10
14	On parameter estimation approaches for predicting disease transmission through optimization, deep learning and statistical inference methods. <i>Letters in Biomathematics</i> , 0, , 1-26.	0.3	6
15	Efficient Physics Informed Neural Networks Coupled with Domain Decomposition Methods for Solving Coupled Multi-physics Problems. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 41-53.	0.3	1