## Maziar Raissi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modeling, Analysis and Physics Informed Neural Network approaches for studying the dynamics of COVID-19 involving human-human and human-pathogen interaction. Computational and Mathematical Biophysics, 2022, 10, 1-17.	1.1	10
2	Efficient Physics Informed Neural Networks Coupled withÂDomain Decomposition Methods forÂSolving Coupled Multi-physics Problems. Lecture Notes in Mechanical Engineering, 2022, , 41-53.	0.4	1
3	A physics-informed deep learning framework for inversion and surrogate modeling in solid mechanics. Computer Methods in Applied Mechanics and Engineering, 2021, 379, 113741.	6.6	340
4	Hidden fluid mechanics: Learning velocity and pressure fields from flow visualizations. Science, 2020, 367, 1026-1030.	12.6	846
5	Systems biology informed deep learning for inferring parameters and hidden dynamics. PLoS Computational Biology, 2020, 16, e1007575.	3.2	133
6	Machine Learning of Space-Fractional Differential Equations. SIAM Journal of Scientific Computing, 2019, 41, A2485-A2509.	2.8	32
7	Parametric Gaussian process regression for big data. Computational Mechanics, 2019, 64, 409-416.	4.0	22
8	Deep learning of vortex-induced vibrations. Journal of Fluid Mechanics, 2019, 861, 119-137.	3.4	256
9	Physics-informed neural networks: A deep learning framework for solving forward and inverse problems involving nonlinear partial differential equations. Journal of Computational Physics, 2019, 378, 686-707.	3.8	4,963
10	Deep learning of turbulent scalar mixing. Physical Review Fluids, 2019, 4, .	2.5	39
11	Numerical Gaussian Processes for Time-Dependent and Nonlinear Partial Differential Equations. SIAM Journal of Scientific Computing, 2018, 40, A172-A198.	2.8	162
12	Hidden physics models: Machine learning of nonlinear partial differential equations. Journal of Computational Physics, 2018, 357, 125-141.	3.8	739
13	Inferring solutions of differential equations using noisy multi-fidelity data. Journal of Computational Physics, 2017, 335, 736-746.	3.8	202
14	Machine learning of linear differential equations using Gaussian processes. Journal of Computational Physics, 2017, 348, 683-693.	3.8	343
15	On parameter estimation approaches for predicting disease transmission through optimization, deep learning and statistical inference methods. Letters in Biomathematics, 0, , 1-26.	0.1	6