

# Maziar Raissi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6447401/publications.pdf>

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	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.	0.6	10
2	Efficient Physics Informed Neural Networks Coupled with Domain Decomposition Methods for Solving Coupled Multi-physics Problems. Lecture Notes in Mechanical Engineering, 2022, , 41-53.	0.3	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.	3.4	340
4	Hidden fluid mechanics: Learning velocity and pressure fields from flow visualizations. Science, 2020, 367, 1026-1030.	6.0	846
5	Systems biology informed deep learning for inferring parameters and hidden dynamics. PLoS Computational Biology, 2020, 16, e1007575.	1.5	133
6	Machine Learning of Space-Fractional Differential Equations. SIAM Journal of Scientific Computing, 2019, 41, A2485-A2509.	1.3	32
7	Parametric Gaussian process regression for big data. Computational Mechanics, 2019, 64, 409-416.	2.2	22
8	Deep learning of vortex-induced vibrations. Journal of Fluid Mechanics, 2019, 861, 119-137.	1.4	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.	1.9	4,963
10	Deep learning of turbulent scalar mixing. Physical Review Fluids, 2019, 4, .	1.0	39
11	Numerical Gaussian Processes for Time-Dependent and Nonlinear Partial Differential Equations. SIAM Journal of Scientific Computing, 2018, 40, A172-A198.	1.3	162
12	Hidden physics models: Machine learning of nonlinear partial differential equations. Journal of Computational Physics, 2018, 357, 125-141.	1.9	739
13	Inferring solutions of differential equations using noisy multi-fidelity data. Journal of Computational Physics, 2017, 335, 736-746.	1.9	202
14	Machine learning of linear differential equations using Gaussian processes. Journal of Computational Physics, 2017, 348, 683-693.	1.9	343
15	On parameter estimation approaches for predicting disease transmission through optimization, deep learning and statistical inference methods. Letters in Biomathematics, 0, , 1-26.	0.3	6