

# Ehsan Haghghat

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,104  
citations

687220

13  
h-index

677027

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

524  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	SciANN: A Keras/TensorFlow wrapper for scientific computations and physics-informed deep learning using artificial neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113552.	3.4	182
3	A mesh-independent finite element formulation for modeling crack growth in saturated porous media based on an enriched-FEM technique. <i>International Journal of Fracture</i> , 2014, 188, 79-108.	1.1	84
4	Physics-informed neural network for modelling the thermochemical curing process of composite-tool systems during manufacture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113959.	3.4	70
5	PINNeik: Eikonal solution using physics-informed neural networks. <i>Computers and Geosciences</i> , 2021, 155, 104833.	2.0	68
6	A nonlocal physics-informed deep learning framework using the peridynamic differential operator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114012.	3.4	58
7	Thermo-hydro-mechanical modeling of impermeable discontinuity in saturated porous media with X-FEM technique. <i>Engineering Fracture Mechanics</i> , 2012, 96, 701-723.	2.0	55
8	Physics-informed neural network simulation of multiphase poroelasticity using stress-split sequential training. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 397, 115141.	3.4	40
9	Extended finite element modeling of deformable porous media with arbitrary interfaces. <i>Applied Mathematical Modelling</i> , 2011, 35, 5426-5441.	2.2	38
10	On modeling of discrete propagation of localized damage in cohesive-frictional materials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 1774-1790.	1.7	33
11	Modeling of deformation and localized failure in anisotropic rocks. <i>International Journal of Solids and Structures</i> , 2015, 67-68, 93-101.	1.3	26
12	A Physics-Informed Neural Network Approach to Solution and Identification of Biharmonic Equations of Elasticity. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	23
13	A viscoplastic model of creep in shale. <i>Geophysics</i> , 2020, 85, MR155-MR166.	1.4	15
14	On modeling of fractured media using an enhanced embedded discontinuity approach. <i>Extreme Mechanics Letters</i> , 2016, 6, 10-22.	2.0	13
15	On the solution of hyperbolic equations using the peridynamic differential operator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114574.	3.4	13
16	Machine learning for accelerating 2D flood models: Potential and challenges. <i>Hydrological Processes</i> , 2021, 35, e14064.	1.1	12
17	Fracture characterization from noisy displacement data using artificial neural networks. <i>Engineering Fracture Mechanics</i> , 2022, 271, 108649.	2.0	9
18	Characterizing the mechanical behaviour of the Tournemire argillite. <i>Geological Society Special Publication</i> , 2017, 443, 97-113.	0.8	7

#	ARTICLE	IF	CITATIONS
19	Solving the eikonal equation for compressional and shear waves in anisotropic media using peridynamic differential operator. <i>Geophysical Journal International</i> , 2022, 229, 1942-1963.	1.0	6
20	Modeling of Fracture Propagation in Concrete Structures Using a Constitutive Relation with Embedded Discontinuity. <i>Studia Geotechnica Et Mechanica</i> , 2015, 36, 27-33.	0.2	4
21	On the mechanical and hydraulic response of sedimentary rocks in the presence of discontinuities. <i>Geomechanics for Energy and the Environment</i> , 2015, 4, 61-72.	1.2	3
22	Assessment of slope stability in cohesive soils due to a rainfall. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 3278-3292.	1.7	2
23	A holistic approach to computing first-arrival traveltimes using neural networks. , 2022, , 251-278.		2
24	A computational framework for meso and macroscale analysis of structural masonry. <i>International Journal of Solids and Structures</i> , 2022, 236-237, 111342.	1.3	1