

Mohammad Vahab

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4694687/publications.pdf>

Version: 2024-02-01

26
papers

688
citations

623574

14
h-index

677027

22
g-index

26
all docs

26
docs citations

26
times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An enriched FEM technique for numerical simulation of interacting discontinuities in naturally fractured porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 331, 197-231.	3.4	81
3	An enriched FEM technique for modeling hydraulically driven cohesive fracture propagation in impermeable media with frictional natural faults: Numerical and experimental investigations. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 104, 439-468.	1.5	78
4	Modeling the interaction between fluid-driven fracture and natural fault using an enriched-FEM technique. <i>International Journal of Fracture</i> , 2016, 197, 1-24.	1.1	66
5	An augmented Lagrangian contact formulation for frictional discontinuities with the extended finite element method. <i>Finite Elements in Analysis and Design</i> , 2015, 107, 28-43.	1.7	65
6	An X-FEM investigation of hydro-fracture evolution in naturally-layered domains. <i>Engineering Fracture Mechanics</i> , 2018, 191, 187-204.	2.0	35
7	An X-FEM technique in modeling hydro-fracture interaction with naturally-cemented faults. <i>Engineering Fracture Mechanics</i> , 2019, 212, 269-290.	2.0	33
8	Numerical investigation of the flow regimes through hydraulic fractures using the X-FEM technique. <i>Engineering Fracture Mechanics</i> , 2017, 169, 146-162.	2.0	32
9	X-FEM Modeling of Multizone Hydraulic Fracturing Treatments Within Saturated Porous Media. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3219-3239.	2.6	30
10	An eXtended Finite Element Method implementation in COMSOL Multiphysics: Solid Mechanics. <i>Finite Elements in Analysis and Design</i> , 2022, 202, 103707.	1.7	29
11	Robust simulation of dynamic fluid-driven fracture in naturally fractured impermeable media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112574.	3.4	24
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 numerical contact algorithm in saturated porous media with the extended finite element method. <i>Computational Mechanics</i> , 2014, 54, 1089-1110.	2.2	22
14	Fully coupled XFEM formulation for hydraulic fracturing simulation based on a generalized fluid leak-off model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113447.	3.4	18
15	X-FEM modeling of large plasticity deformation; a convergence study on various blending strategies for weak discontinuities. <i>European Journal of Computational Mechanics</i> , 2015, 24, 79-106.	0.6	14
16	An X-FEM Formulation for the Optimized Graded Proppant Injection into Hydro-fractures Within Saturated Porous Media. <i>Transport in Porous Media</i> , 2018, 121, 289-314.	1.2	12
17	Computational Algorithm for the Anticipation of the Fluid-Lag Zone in Hydraulic Fracturing Treatments. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	11
18	Fracture characterization from noisy displacement data using artificial neural networks. <i>Engineering Fracture Mechanics</i> , 2022, 271, 108649.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Numerical analysis of multiple hydro-fracture growth in layered media based on a non-differentiable energy minimization approach. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107361.	2.0	8
20	Empirical and Conceptual Challenges in Hydraulic Fracturing with Special Reference to the Inflow. <i>International Journal of Geomechanics</i> , 2020, 20, .	1.3	6
21	A super-convergent staggered algorithm for the simulation of hydraulic fracturing treatments. <i>International Journal of Fracture</i> , 2019, 217, 49-64.	1.1	4
22	Energy minimization versus criteria-based methods in discrete cohesive fracture simulations. <i>Computational Mechanics</i> , 2021, 68, 845-860.	2.2	4
23	An X-FEM Algorithm for Modeling of Multi-zone Hydraulic Fracturing in Saturated Porous Media. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 277-290.	0.0	0
24	An X-FEM Implementation of Hydro-Fracture Growth in Naturally Fractured Saturated Porous Media. , 2017, , .		0
25	A Robust Implementation of Dynamic Evolution of Fluid-Driven Fractures. <i>Lecture Notes in Civil Engineering</i> , 2021, , 656-662.	0.3	0
26	A NUMERICAL INVESTIGATION OF PULSE HYDRAULIC FRACTURING TREATMENTS USING THE X-FEM TECHNIQUE. <i>Journal of Porous Media</i> , 2019, 22, 923-938.	1.0	0