Ehsan Nikooee

List of Publications by Year
in descending order

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30 papers	528 citations	759055 12 h-index	642610 23 g-index
30 all docs	30 docs citations	30 times ranked	521 citing authors

#	Article	IF	Citations
1	A new formulation for non-equilibrium capillarity effect using multi-gene genetic programming (MGGP): accounting for fluid and porous media properties. Engineering With Computers, 2022, 38, 1697-1709.	3.5	6
2	3D numerical investigation of the effects of driving of the new mechanized tunnel on existing segmental linings and ground surface settlements - a case study: Shiraz metro line 2. International Journal of Geotechnical Engineering, 2022, 16, 878-889.	1.1	8
3	Determination of unsaturated hydraulic conductivity of sandy soils: a new pore network approach. Acta Geotechnica, 2021, 16, 449-466.	2.9	15
4	Discussion of â€œUnified Effective Stress Equation for Soilâ€•by Chao Zhang and Ning Lu. Journal of Engineering Mechanics - ASCE, 2021, 147, 07020003.	1.6	0
5	Wind erosion control using carboxymethyl cellulose: From sand bombardment performance to microfabric analysis. Aeolian Research, 2021, 50, 100696.	1.1	15
6	A Capillary Water-Retention Framework for the Effective Stress Parameter Considering Hydraulic Hysteresis. Transport in Porous Media, 2021, 138, 489-509.	1.2	3
7	Determination of soil-water retention curve: an artificial intelligence-based approach. E3S Web of Conferences, 2020, 195, 02010.	0.2	2
8	Effects of Biological Stabilization on the Water Retention Properties of Unsaturated Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	32
9	Theoretical and experimental investigations on the role of transient effects in the water retention behaviour of unsaturated granular soils. Geomechanics for Energy and the Environment, 2018, 15, 54-64.	1.2	13
10	Reply to the Comments on â€œBridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approachâ€â€”by Nasser Khalili and Arman Khoshghalb. Transport in Porous Media, 2018, 122, 521-526.	1.2	1
11	Stabilization of dispersive soils by means of biological calcite precipitation. Geoderma, 2018, 315, 130-137.	2.3	64
12	Estimation of asphaltene precipitation in light, medium and heavy oils: experimental study and neural network modeling. Neural Computing and Applications, 2017, 28, 679-694.	3.2	31
13	Partially saturated media: from DEM simulation to thermodynamic interpretation. European Journal of Environmental and Civil Engineering, 2017, 21, 798-820.	1.0	11
14	Bridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approach. Transport in Porous Media, 2017, 117, 349-365.	1.2	14
15	The Effect of Stress Level on Soil Porous Structure: Insights from Fractal Analysis. , 2017, , .		0
16	Biological Stabilization of a Swelling Fine-Grained Soil: The Role of Microstructural Changes in the Shear Behavior. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2017, 41, 405-414.	1.0	22
17	Micromechanical Insights into the Effective Stresses. , 2017, , .		0
18	A study on the saturation degree dependency of the seismic behaviour of retaining walls. E3S Web of Conferences, 2016, 9, 05001.	0.2	0

#	Article	IF	Citations
19	Seismic response of earth dams considering dynamic properties of unsaturated zone. E3S Web of Conferences, 2016, 9, 08002.	0.2	2
20	Determination of the relationship among capillary pressure, saturation and interfacial area: a pore unit assembly approach. E3S Web of Conferences, 2016, 9, 02002.	0.2	3
21	The Effects of Swelling and Porosity Change on Capillarity: DEM Coupled with a Pore-Unit Assembly Method. Transport in Porous Media, 2016, 113, 207-226.	1.2	41
22	Pore Network Investigation on Hysteresis Phenomena and Influence of Stress State on the SWRC. International Journal of Geomechanics, 2015, 15, .	1.3	29
23	Effect of Confining Stress on Soil Water Retention Curve and its Impact on the Shear Strength of Unsaturated Soils. Vadose Zone Journal, 2014, 13, 1-11.	1.3	26
24	Principle of Effective Stress in Variably Saturated Porous Media. Vadose Zone Journal, 2014, 13, 1-4.	1.3	5
25	Effective Stress in Unsaturated Soils: A Thermodynamic Approach Based on the Interfacial Energy and Hydromechanical Coupling. Transport in Porous Media, 2013, 96, 369-396.	1.2	78
26	The Effective Stress in Unsaturated Soils: Insights from Thermodynamics. , 2012, , 5-11.		4
27	Determination of the effective thermal conductivity of gas diffusion layers in polymer electrolyte membrane fuel cells: a comprehensive fractal approach. International Journal of Energy Research, 2011, 35, 1351-1359.	2.2	9
28	THE ROBUST FRACTAL ANALYSIS OF TIME SERIES: CONCERNING SIGNAL CLASS AND DATA LENGTH. Fractals, 2011, 19, 29-49.	1.8	7
29	Investigating wettability alteration due to asphaltene precipitation: Imprints in surface multifractal characteristics. Applied Surface Science, 2010, 256, 6466-6472.	3.1	58
30	Prediction of Asphaltene Precipitation: Learning from Data at Different Conditions. Energy & Fuels, 2010, 24, 4046-4053.	2.5	29