

Nasser Khalili

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,928
citations

24
h-index

43
g-index

60
ext. papers

2,199
ext. citations

3.4
avg, IF

5.26
L-index

#	Paper	IF	Citations
55	A fully coupled flow deformation model for cyclic analysis of unsaturated soils including hydraulic and mechanical hystereses. <i>Computers and Geotechnics</i> , 2008 , 35, 872-889	4.4	207
54	A three-phase model for unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2000 , 24, 893-927	4	162
53	A bounding surface plasticity model for sands exhibiting particle crushing. <i>Canadian Geotechnical Journal</i> , 2004 , 41, 1179-1192	3.2	159
52	Experimental investigation of thermo-hydro-mechanical behaviour of an unsaturated silt. <i>Geotechnique</i> , 2009 , 59, 339-353	3.4	154
51	A unified bounding surface plasticity model for unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2006 , 30, 181-212	4	115
50	A bounding surface plasticity model for cyclic loading of granular soils. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 1939-1960	2.4	88
49	A fully coupled constitutive model for thermo-hydro-mechanical analysis in elastic media with double porosity. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	71
48	A thermo-hydro-mechanical coupled model in local thermal non-equilibrium for fractured HDR reservoir with double porosity. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		70
47	Drained cavity expansion in sands exhibiting particle crushing. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 323-340	4	61
46	A hypoplastic model for mechanical response of unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008 , 32, 1903-1926	4	49
45	On the problem of cavity expansion in unsaturated soils. <i>Computational Mechanics</i> , 2006 , 37, 311-330	4	47
44	A meshfree method for fully coupled analysis of flow and deformation in unsaturated porous media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 716-743	4	45
43	Pitfalls in Interpretation of Gravimetric Water ContentBased Soil-Water Characteristic Curve for Deformable Porous Media. <i>International Journal of Geomechanics</i> , 2016 , 16,	3.1	44
42	Seismic analysis of arch dams continuum damage mechanics approach. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 45, 1695-1724	2.4	44
41	Fully Coupled XFEM Model for Flow and Deformation in Fractured Porous Media with Explicit Fracture Flow. <i>International Journal of Geomechanics</i> , 2016 , 16, 04015091	3.1	38
40	Effect of Gradation and Particle Shape on Small-Strain Young's Modulus and Poisson's Ratio of Sands. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016120	3.1	36
39	An effective stress based numerical model for hydro-mechanical analysis in unsaturated porous media. <i>Computational Mechanics</i> , 2000 , 26, 174-184	4	36

38	Thermal recovery from a fractured medium in local thermal non-equilibrium. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 2471-2501	4	34
37	Coupling effects in double porosity media with deformable matrix. <i>Geophysical Research Letters</i> , 2003 , 30,	4-9	33
36	A three-point time discretization technique for parabolic partial differential equations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011 , 35, 406-418	4	30
35	Effective stress in double porous media with two immiscible fluids. <i>Geophysical Research Letters</i> , 2005 , 32,	4-9	30
34	Simplified Mapping Rule for Bounding Surface Simulation of Complex Loading Paths in Granular Materials. <i>International Journal of Geomechanics</i> , 2014 , 14, 239-253	3-1	28
33	Influence of particle shape on small-strain damping ratio of dry sands. <i>Geotechnique</i> , 2016 , 66, 610-616	3-4	28
32	Hysteretic Model for the Evolution of Water Retention Curve with Void Ratio. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017030	2-4	26
31	X-FEM Modeling of Multizone Hydraulic Fracturing Treatments Within Saturated Porous Media. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 3219-3239	5-7	22
30	Linking cone penetration resistances measured in calibration chambers and the field. <i>Geotechnique Letters</i> , 2012 , 2, 29-35	1-7	21
29	Two-phase fluid flow through fractured porous media with deformable matrix. <i>Water Resources Research</i> , 2008 , 44,	5-4	21
28	A peridynamics model for strain localization analysis of geomaterials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019 , 43, 77-96	4	21
27	Drained cavity expansions in soils of finite radial extent subjected to two boundary conditions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 331-352	4	19
26	Development of a new calibration chamber for conducting cone penetration tests in unsaturated soils. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 314-321	3-2	19
25	Stochastic modelling of crack propagation in materials with random properties using isometric mapping for dimensionality reduction of nonlinear data sets. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 656-680	2-4	18
24	On generalization of constitutive models from two dimensions to three dimensions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008 , 32, 2045-2065	4	18
23	A Lattice Spring Model for Coupled Fluid Flow and Deformation Problems in Geomechanics. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 781-799	5-7	15
22	Optical humidity sensor based on air guided photonic crystal fiber. <i>Photonic Sensors</i> , 2012 , 2, 277-282	2-3	15
21	In situ fluidisation by a single internal vertical jet. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1998 , 36, 199-228	1-9	14

20	An alternative approach for quasi-static large deformation analysis of saturated porous media using meshfree method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015 , 39, 913-936	4	13
19	A bounding surface elasto-viscoplastic constitutive model for non-isothermal cyclic analysis of asphaltic materials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2017 , 41, 721-739	4	11
18	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	3.1	11
17	An evolutionary approach to modelling the thermomechanical behaviour of unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015 , 39, 539-557	4	10
16	Design of raftpile foundation using combined optimization and finite element approach 1999 , 23, 1043-1065		8
15	Gravity Hydraulic Fracturing: A Method to Create Self-Driven Fractures. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087563	4.9	7
14	A Bounding Surface Viscoplasticity Model for Time-Dependent Behavior of Soils Including Primary and Tertiary Creep. <i>International Journal of Geomechanics</i> , 2020 , 20, 04020143	3.1	5
13	Principle of Effective Stress in Variably Saturated Porous Media. <i>Vadose Zone Journal</i> , 2014 , 13, vzj2014.04.0038		5
12	Consolidation of unsaturated lumpy clays. <i>Journal of Geo-Engineering Sciences</i> , 2014 , 2, 67-82		4
11	A three-phase model for unsaturated soils 2000 , 24, 893		4
10	A super-convergent staggered algorithm for the simulation of hydraulic fracturing treatments. <i>International Journal of Fracture</i> , 2019 , 217, 49-64	2.3	2
9	All-Fiber Optic Humidity Sensor Based on Photonic Bandgap Fiber and Digital WMS Detection. <i>IEEE Sensors Journal</i> , 2013 , 13, 1817-1823	4	2
8	Design of raftpile foundation using combined optimization and finite element approach 1999 , 23, 1043		2
7	Generalized Mapping Rule for Image Point Identification in 3D Bounding Surface Plasticity Models. <i>International Journal of Geomechanics</i> , 2021 , 21,	3.1	1
6	Energy minimization versus criteria-based methods in discrete cohesive fracture simulations. <i>Computational Mechanics</i> , 2021 , 68, 845-860	4	1
5	A bounding surface plasticity model for unsaturated structured soils. <i>Computers and Geotechnics</i> , 2021 , 138, 104313	4.4	1
4	A fully coupled flow-deformation model for cyclic elasto-plastic analysis of multiphase porous media. <i>Japanese Geotechnical Society Special Publication</i> , 2019 , 7, 541-548	0.2	
3	A fully coupled flow-deformation model for time-dependent analysis of unsaturated soils. <i>Japanese Geotechnical Society Special Publication</i> , 2019 , 7, 587-594	0.2	

- 2 Comment on Bridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approach. M. Huyghe, E. Nikoodee, S. M. Hassanizadeh; Published online: 4 March 2017 DOI 10.1007/s11242-017-0837-9. *Transport in Porous Media*, **2018**, 122, 515-519 3.1
- 1 Special issue on Computational Mechanics. *Computational Mechanics*, **2006**, 37, 291-291 4