

# Nasser Khalili

## List of Publications by Year in Descending Order

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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	Generalized Mapping Rule for Image Point Identification in 3D Bounding Surface Plasticity Models. <i>International Journal of Geomechanics</i> , <b>2021</b> , 21,	3.1	1
54	Energy minimization versus criteria-based methods in discrete cohesive fracture simulations. <i>Computational Mechanics</i> , <b>2021</b> , 68, 845-860	4	1
53	A bounding surface plasticity model for unsaturated structured soils. <i>Computers and Geotechnics</i> , <b>2021</b> , 138, 104313	4.4	1
52	A Bounding Surface Viscoplasticity Model for Time-Dependent Behavior of Soils Including Primary and Tertiary Creep. <i>International Journal of Geomechanics</i> , <b>2020</b> , 20, 04020143	3.1	5
51	Gravity Hydraulic Fracturing: A Method to Create Self-Driven Fractures. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087563	4.9	7
50	A fully coupled flow-deformation model for cyclic elasto-plastic analysis of multiphase porous media. <i>Japanese Geotechnical Society Special Publication</i> , <b>2019</b> , 7, 541-548	0.2	
49	A fully coupled flow-deformation model for time-dependent analysis of unsaturated soils. <i>Japanese Geotechnical Society Special Publication</i> , <b>2019</b> , 7, 587-594	0.2	
48	A super-convergent staggered algorithm for the simulation of hydraulic fracturing treatments. <i>International Journal of Fracture</i> , <b>2019</b> , 217, 49-64	2.3	2
47	A peridynamics model for strain localization analysis of geomaterials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2019</b> , 43, 77-96	4	21
46	X-FEM Modeling of Multizone Hydraulic Fracturing Treatments Within Saturated Porous Media. <i>Rock Mechanics and Rock Engineering</i> , <b>2018</b> , 51, 3219-3239	5.7	22
45	Comment on Bridging Effective Stress and Soil Water Retention Equations in Deforming Unsaturated Porous Media: A Thermodynamic Approach. M. Huyghe, E. Nikooee, S. M. Hassanizadeh; Published online: 4 March 2017 DOI 10.1007/s11242-017-0837-9. <i>Transport in Porous Media</i> , <b>2018</b> , 133, 517-518	3.1	
44	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> , <b>2018</b> , 113, 656-680	2.4	18
43	An X-FEM Formulation for the Optimized Graded Proppant Injection into Hydro-fractures Within Saturated Porous Media. <i>Transport in Porous Media</i> , <b>2018</b> , 121, 289-314	3.1	11
42	Hysteretic Model for the Evolution of Water Retention Curve with Void Ratio. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2017</b> , 143, 04017030	2.4	26
41	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> , <b>2017</b> , 41, 721-739	4	11
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> , <b>2017</b> , 17, 04016120	3.1	36
39	Pitfalls in Interpretation of Gravimetric Water Content-Based Soil-Water Characteristic Curve for Deformable Porous Media. <i>International Journal of Geomechanics</i> , <b>2016</b> , 16,	3.1	44

38	Fully Coupled XFEM Model for Flow and Deformation in Fractured Porous Media with Explicit Fracture Flow. <i>International Journal of Geomechanics</i> , <b>2016</b> , 16, 04015091	3.1	38
37	Influence of particle shape on small-strain damping ratio of dry sands. <i>Geotechnique</i> , <b>2016</b> , 66, 610-616	3.4	28
36	An evolutionary approach to modelling the thermomechanical behaviour of unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2015</b> , 39, 539-557	4	10
35	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> , <b>2015</b> , 39, 913-936	4	13
34	Consolidation of unsaturated lumpy clays. <i>Journal of Geo-Engineering Sciences</i> , <b>2014</b> , 2, 67-82		4
33	Principle of Effective Stress in Variably Saturated Porous Media. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vzt2014.04.0038		4
32	Simplified Mapping Rule for Bounding Surface Simulation of Complex Loading Paths in Granular Materials. <i>International Journal of Geomechanics</i> , <b>2014</b> , 14, 239-253	3.1	28
31	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> , <b>2013</b> , 37, 716-743	4	45
30	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> , <b>2013</b> , 37, 331-352	4	19
29	All-Fiber Optic Humidity Sensor Based on Photonic Bandgap Fiber and Digital WMS Detection. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1817-1823	4	2
28	Thermal recovery from a fractured medium in local thermal non-equilibrium. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2013</b> , 37, 2471-2501	4	34
27	A thermo-hydro-mechanical coupled model in local thermal non-equilibrium for fractured HDR reservoir with double porosity. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		70
26	A Lattice Spring Model for Coupled Fluid Flow and Deformation Problems in Geomechanics. <i>Rock Mechanics and Rock Engineering</i> , <b>2012</b> , 45, 781-799	5.7	15
25	Optical humidity sensor based on air guided photonic crystal fiber. <i>Photonic Sensors</i> , <b>2012</b> , 2, 277-282	2.3	15
24	Linking cone penetration resistances measured in calibration chambers and the field. <i>Geotechnique Letters</i> , <b>2012</b> , 2, 29-35	1.7	21
23	A three-point time discretization technique for parabolic partial differential equations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2011</b> , 35, 406-418	4	30
22	Development of a new calibration chamber for conducting cone penetration tests in unsaturated soils. <i>Canadian Geotechnical Journal</i> , <b>2011</b> , 48, 314-321	3.2	19
21	Experimental investigation of thermo-hydro-mechanical behaviour of an unsaturated silt. <i>Geotechnique</i> , <b>2009</b> , 59, 339-353	3.4	154

20	Two-phase fluid flow through fractured porous media with deformable matrix. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	21
19	A fully coupled flow deformation model for cyclic analysis of unsaturated soils including hydraulic and mechanical hystereses. <i>Computers and Geotechnics</i> , <b>2008</b> , 35, 872-889	4.4	207
18	A hypoplastic model for mechanical response of unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2008</b> , 32, 1903-1926	4	49
17	On generalization of constitutive models from two dimensions to three dimensions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2008</b> , 32, 2045-2065	4	18
16	A unified bounding surface plasticity model for unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2006</b> , 30, 181-212	4	115
15	Special issue on Computational Mechanics. <i>Computational Mechanics</i> , <b>2006</b> , 37, 291-291	4	
14	On the problem of cavity expansion in unsaturated soils. <i>Computational Mechanics</i> , <b>2006</b> , 37, 311-330	4	47
13	Effective stress in double porous media with two immiscible fluids. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	30
12	A bounding surface plasticity model for cyclic loading of granular soils. <i>International Journal for Numerical Methods in Engineering</i> , <b>2005</b> , 63, 1939-1960	2.4	88
11	A bounding surface plasticity model for sands exhibiting particle crushing. <i>Canadian Geotechnical Journal</i> , <b>2004</b> , 41, 1179-1192	3.2	159
10	Coupling effects in double porosity media with deformable matrix. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	33
9	A fully coupled constitutive model for thermo-hydro-mechanical analysis in elastic media with double porosity. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	71
8	Drained cavity expansion in sands exhibiting particle crushing. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2002</b> , 26, 323-340	4	61
7	A three-phase model for unsaturated soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2000</b> , 24, 893-927	4	162
6	An effective stress based numerical model for hydro-mechanical analysis in unsaturated porous media. <i>Computational Mechanics</i> , <b>2000</b> , 26, 174-184	4	36
5	A three-phase model for unsaturated soils <b>2000</b> , 24, 893		4
4	Seismic analysis of arch dams—continuum damage mechanics approach. <i>International Journal for Numerical Methods in Engineering</i> , <b>1999</b> , 45, 1695-1724	2.4	44
3	Design of raft—pile foundation using combined optimization and finite element approach <b>1999</b> , 23, 1043-1065		8

- 2 Design of raftpile foundation using combined optimization and finite element approach **1999**, 23, 1043 2
- 1 In situ fluidisation by a single internal vertical jet. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **1998**, 36, 199-228 1.9 14