

# Mehdi Omidvar

## List of Publications by Year in descending order

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33  
papers

958  
citations

516215

16  
h-index

580395

25  
g-index

33  
all docs

33  
docs citations

33  
times ranked

627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress-strain behavior of sand at high strain rates. <i>International Journal of Impact Engineering</i> , 2012, 49, 192-213.	2.4	208
2	Response of granular media to rapid penetration. <i>International Journal of Impact Engineering</i> , 2014, 66, 60-82.	2.4	115
3	A transparent aqueous-saturated sand surrogate for use in physical modeling. <i>Acta Geotechnica</i> , 2014, 9, 187-206.	2.9	82
4	Application of Homotopy Perturbation Method and Variational Iteration Method to Nonlinear Oscillator Differential Equations. <i>Acta Applicandae Mathematicae</i> , 2008, 104, 161-171.	0.5	69
5	Active static and seismic earth pressure for c&agrave;t soils. <i>Soils and Foundations</i> , 2013, 53, 639-652.	1.3	44
6	Phenomenology of rapid projectile penetration into granular soils. <i>International Journal of Impact Engineering</i> , 2015, 85, 146-160.	2.4	39
7	Modelling of projectile penetration using transparent soils. <i>International Journal of Physical Modelling in Geotechnics</i> , 2014, 14, 68-79.	0.5	38
8	Image-Based Lagrangian Analysis of Granular Kinematics. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	2.5	36
9	Visualizing Kinematics of Dynamic Penetration in Granular Media Using Transparent Soils. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140206.	0.5	34
10	Soil&agrave; projectile interactions during low velocity penetration. <i>International Journal of Impact Engineering</i> , 2016, 93, 211-221.	2.4	33
11	Infiltration in unsaturated soils &agrave; An analytical approach. <i>Computers and Geotechnics</i> , 2011, 38, 777-782.	2.3	28
12	Variational Iteration Method and Homotopy-Perturbation Method for Solving Burgers Equation in Fluid Dynamics. <i>Journal of Applied Sciences</i> , 2008, 8, 369-373.	0.1	27
13	Seismic displacement analysis of embankment dams with reinforced cohesive shell. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 1149-1157.	1.9	26
14	Guidelines for DIC in geotechnical engineering research. <i>International Journal of Physical Modelling in Geotechnics</i> , 2017, 17, 3-22.	0.5	25
15	Visualizing the effect of Fin length on torpedo anchor penetration and pullout using a transparent soil. <i>Ocean Engineering</i> , 2020, 216, 108021.	1.9	22
16	Photonic Doppler Velocimetry for Study of Rapid Penetration into Sand. <i>Geotechnical Testing Journal</i> , 2014, 37, 20130037.	0.5	21
17	A Nonviscous Water-Based Pore Fluid for Modeling With Transparent Soils. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140278.	0.5	16
18	Conjugate Stress Approach for Rankine Seismic Active Earth Pressure in Cohesionless Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1205-1210.	1.5	14

#	ARTICLE	IF	CITATIONS
19	Soil Deformations During Casing Jacking and Extraction of Expanded-Shoe Piles, Using Model Tests. Geotechnical and Geological Engineering, 2017, 35, 809-826.	0.8	14
20	Rankine pseudo-static earth pressure for c&#228;e&#228;f&#228; soils. Mechanics Research Communications, 2013, 51, 51-55.	1.0	13
21	APPLICATION OF HOMOTOPY PERTURBATION AND VARIATIONAL ITERATION METHODS TO SIR EPIDEMIC MODEL. Journal of Mechanics in Medicine and Biology, 2011, 11, 149-161.	0.3	11
22	The effect of structures on the wave-induced liquefaction potential of seabed sand deposits. Applied Ocean Research, 2009, 31, 25-30.	1.8	9
23	Particle rotation of granular materials in plane strain. International Journal of Physical Modelling in Geotechnics, 2017, 17, 23-40.	0.5	9
24	Recent Insights into Penetration of Sand and Similar Granular Materials. Shock Wave and High Pressure Phenomena, 2019, , 137-163.	0.1	9
25	Poncelet Coefficients of Granular Media. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 373-380.	0.3	5
26	Global Observations & Post Mortem Analysis of Penetration in Sand. , 2015, , 145-185.		4
27	A Mixed-Reality Pedagogical Innovation in the Reality of a New Normal. , 2021, , .		3
28	High-Speed Penetration of Granular Geomaterials. , 2015, , 93-144.		2
29	Visualizing the Fundamental Physics of Rapid Earth Penetration Using Transparent Soils. , 2015, , .		1
30	Mesoscale Observations of Dynamic Penetration in Granular Media Using Transparent Soils. , 2015, , 377-413.		1
31	Soil Deformations during Finless Torpedo Installation. , 2017, , .		0
32	Hydrocode Modeling of Torpedo Anchor Installation in Soils. , 2018, , .		0
33	Interactive Web Application for Computing Seismic Earth Pressure. , 2018, , .		0