

Christos Vrettos

List of Publications by Year in descending order

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47
papers

1,015
citations

623734

14
h-index

434195

31
g-index

58
all docs

58
docs citations

58
times ranked

970
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	12.9	207
2	A bonded-particle model for cemented sand. Computers and Geotechnics, 2013, 49, 299-313.	4.7	126
3	Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014.	12.8	107
4	Prediction of draft forces in cohesionless soil with the Discrete Element Method. Journal of Terramechanics, 2011, 48, 347-358.	3.1	78
5	A discrete element model and its experimental validation for the prediction of draft forces in cohesive soil. Journal of Terramechanics, 2014, 53, 93-104.	3.1	50
6	Time-harmonic boussinesq problem for a continuously non-homogeneous soil. Earthquake Engineering and Structural Dynamics, 1991, 20, 961-977.	4.4	48
7	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006387.	3.6	44
8	Vertical and rocking impedances for rigid rectangular foundations on soils with bounded non-homogeneity. Earthquake Engineering and Structural Dynamics, 1999, 28, 1525-1540.	4.4	37
9	Dynamic response of soil deposits to vertical SH waves for different rigidity depth-gradients. Soil Dynamics and Earthquake Engineering, 2013, 47, 41-50.	3.8	33
10	Integral abutment bridges: Investigation of seismic soil-structure interaction effects by shaking table testing. Earthquake Engineering and Structural Dynamics, 2021, 50, 1517-1538.	4.4	32
11	Scattering of waves by subterranean structures via the boundary element method. Soil Dynamics and Earthquake Engineering, 1996, 15, 387-397.	3.8	29
12	Seismic pressures on rigid cantilever walls retaining elastic continuously non-homogeneous soil: An exact solution. Soil Dynamics and Earthquake Engineering, 2016, 82, 142-153.	3.8	26
13	Thermal Conductivity of the Martian Soil at the InSight Landing Site From HP ³ Active Heating Experiments. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006861.	3.6	23
14	Evaluation of In Situ Effective Shear Modulus from Dispersion Measurements. Journal of Geotechnical Engineering, 1990, 116, 1581-1585.	0.4	17
15	Green's functions for vertical point load on an elastic half-space with depth-degrading stiffness. Engineering Analysis With Boundary Elements, 2008, 32, 1037-1045.	3.7	12
16	Meshfree generalized finite difference methods in soil mechanics—part II: numerical results. GEM - International Journal on Geomathematics, 2017, 8, 191-217.	1.6	12
17	Extended Pile Driving Model to Predict the Penetration of the InSight/HP3 Mole into the Martian Soil. Space Science Reviews, 2017, 211, 217-236.	8.1	11
18	Shear Strength Investigations for a Class of Extraterrestrial Analogue Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 508-515.	3.0	10

#	ARTICLE	IF	CITATIONS
19	Meshfree generalized finite difference methods in soil mechanics” part I: theory. GEM - International Journal on Geomathematics, 2013, 4, 167-184.	1.6	10
20	Indentation tests and rolling simulations of a compliant wheel on soil at different consistencies. Journal of Terramechanics, 2021, 94, 39-48.	3.1	10
21	A model for multiphase flow and transport in porous media including a phenomenological approach to account for deformation”a model concept and its validation within a code intercomparison study. Computational Geosciences, 2009, 13, 281-300.	2.4	8
22	Fallstudie zur seismischen Auslegung der Stationen und der Tunnel einer U-Bahnlinie in weichem Boden. Bautechnik, 2013, 90, 333-340.	0.1	7
23	Anwendung der Diskrete”Elemente”Methode zur Vorhersage von Kr”ften bei der Bodenbearbeitung. Geotechnik, 2013, 36, 231-242.	0.2	7
24	Simple inversion procedure for shallow seismic refraction in continuously nonhomogeneous soils. Soil Dynamics and Earthquake Engineering, 1996, 15, 381-386.	3.8	6
25	Rectangular footing on soil with depth-degrading stiffness: Vertical and rocking impedances under conditional existence of surface waves. Soil Dynamics and Earthquake Engineering, 2014, 65, 294-302.	3.8	6
26	Elastic settlement and rotation of rectangular footings on nonhomogeneous soil. Geotechnique, 1998, 48, 703-707.	4.0	5
27	Mechanisches Verhalten eines teilges”ttigten Kaolinit-Tons: Experimentelle Untersuchungen, Stoffmodell und Implementierung. Geotechnik, 2012, 35, 236-244.	0.2	4
28	Effects of specimen size and inertia on resonant column tests applied to sands. Soil Dynamics and Earthquake Engineering, 2022, 155, 107136.	3.8	4
29	Simulation of liquefied sand by the Lattice Boltzmann method. Geotechnik, 2014, 37, 96-104.	0.2	3
30	Sand”tyre chips mixtures in undrained and drained cyclic triaxial tests. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2022, 175, 23-33.	1.0	3
31	Quellverhalten eines teilges”ttigten Kaolinit”Tons: Laborversuche, Modell und numerische Simulation. Geotechnik, 2011, 34, 32-41.	0.2	1
32	Metro Thessaloniki: Tiefe Baugruben in Deckelbauweise. Geotechnik, 2011, 34, 291-296.	0.2	1
33	Design and execution of special foundation works for the deep excavations of the Thessaloniki Metro / Projektierung und Anwendung von Spezialtiefbauverfahren bei den tiefen Baugruben der Metro Thessaloniki. Geomechanik Und Tunnelbau, 2013, 6, 471-478.	0.3	1
34	Versuche zur einaxialen Druckfestigkeit geklebter Gesteinsproben. Geotechnik, 2013, 36, 113-118.	0.2	1
35	Kontinuit”t des Wissens. Geotechnik, 2014, 37, 1-1.	0.2	1
36	Nachhaltig experimentieren. Geotechnik, 2016, 39, 1-1.	0.2	1

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37	Bearing strength surfaces implied in conventional bearing capacity calculations. Geotechnique, 2019, 69, 932-935.	4.0	1
38	Effect of mean grain size on shear modulus degradation and damping ratio curves of sands. Geotechnique, 2023, 73, 840-842.	4.0	1
39	Closure to "Evaluation of In Situ Effective Shear Modulus from Dispersion Measurements" by Christos Vrettos and Bernd Prange (October, 1990, Vol. 116, No. 10). Journal of Geotechnical Engineering, 1992, 118, 1125-1127.	0.4	0
40	Discussion of the Paper "Shear Modulus and Damping Ratio of Organic Soils" by P. Kalliolou, Th. Tika, G. Koninis, St. Papadopoulos, K. Pitilakis: Geotechnical and Geological Engineering, DOI 10.1007/s10706-008-9224-1. Geotechnical and Geological Engineering, 2009, 27, 485-487.	1.7	0
41	Wer schreibt, der bleibt. Geotechnik, 2013, 36, 1-2.	0.2	0
42	Konkurrenz durch Qualität. Geotechnik, 2015, 38, 1-1.	0.2	0
43	Normenschleier. Geotechnik, 2017, 40, 1-1.	0.2	0
44	Sondierungen. Geotechnik, 2018, 41, 1-1.	0.2	0
45	Nachwuchsmangel. Geotechnik, 2019, 42, 1-1.	0.2	0
46	Unzulässige Niveaupflege. Geotechnik, 2020, 43, 1-1.	0.2	0
47	Eine außergewöhnliche Situation. Geotechnik, 2021, 44, 1-1.	0.2	0