Mourad Karray

List of Publications by Year
in descending order

60 papers	730 citations	567144 15 h-index	610775 24 g-index
60 all docs	60 docs citations	60 times ranked	446 citing authors

#	Article	IF	Citations
1	Simplified approach for soil-spring stiffness prediction of pile group. International Journal of Geotechnical Engineering, 2022, 16, 415-425.	1.1	0
2	Specimens size effect D/H on cyclic behaviour and liquefaction potential of clean sand. Acta Geotechnica, 2022, 17, 2047-2057.	2.9	4
3	Strain rate effect on static and dynamic behaviors of eastern Canada fine-grained soils. Canadian Geotechnical Journal, 2022, 59, 1083-1095.	1.4	2
4	Effect of the driving system on Hardin-type resonant columns. Canadian Geotechnical Journal, 2022, 59, 1685-1689.	1.4	1
5	Investigation of small- to large-strain moduli correlations of normally consolidated granular soils. Canadian Geotechnical Journal, 2021, 58, 1-22.	1.4	6
6	Consolidation characteristics of hydraulically deposited tailings obtained from shear wave velocity (Vs) measurements in triaxial and oedometric cells with piezoelectric ring-actuator technique (P-RAT). Canadian Geotechnical Journal, 2021, 58, 281-294.	1.4	3
7	Liquefaction resistance from cyclic simple and triaxial shearing: a comparative study. Acta Geotechnica, 2021, 16, 1735-1753.	2.9	13
8	A TLBO-optimized artificial neural network for modeling axial capacity of pile foundations. Engineering With Computers, 2021, 37, 675-684.	3.5	17
9	Shear modulus and hysteretic damping of sensitive eastern Canada clays. Canadian Geotechnical Journal, 2021, 58, 1118-1134.	1.4	4
10	On the Dynamic Soil Behavior under Triaxial and Simple Shear Modes. International Journal of Geomechanics, 2021, 21, .	1.3	5
11	Piezoelectric Ring-Actuator Technique: In-Depth Scrutiny of Interpretation Method. Geotechnical Testing Journal, 2021, 44, 205-215.	0.5	6
12	Framework to improve the correlation of SPT-N and geotechnical parameters in sand. Acta Geotechnica, 2020, 15, 735-759.	2.9	4
13	Does long-term storage of clay samples influence their mechanical characteristics?. Canadian Geotechnical Journal, 2020, 57, 304-309.	1.4	1
14	Non-intrusive Characterization of Shallow Soils and Utility Structures Below Pavements Using Rayleigh Waves. Pure and Applied Geophysics, 2020, 177, 737-762.	0.8	1
15	Two-dimensional modelling evaluation of laterally loaded piles based on three-dimensional analyses. Geomechanics and Geoengineering, 2020, 15, 263-280.	0.9	1
16	Mitigation of liquefaction-induced uplift of underground structures. Computers and Geotechnics, 2020, 125, 103663.	2.3	18
17	Experimental and numerical investigation of the Saint-Adelphe landslide after the 1988 Saguenay earthquake. Canadian Geotechnical Journal, 2020, 57, 1936-1952.	1.4	8
18	Laboratory Simulator for Geotechnical Penetration Tests. Geotechnical Testing Journal, 2020, 43, 20170413.	0.5	3

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19	Stiffnessâ€“ and dampingâ€“strain curves of sensitive Champlain clays through experimental and analytical approaches. Canadian Geotechnical Journal, 2019, 56, 364-377.	1.4	16
20	Adjustment of spectral pseudo-static approach to account for soil plasticity and zone seismicity. Canadian Geotechnical Journal, 2019, 56, 173-186.	1.4	4
21	Influence of particle size and gradation on shear strengthâ€“dilation relation of granular materials. Canadian Geotechnical Journal, 2019, 56, 208-227.	1.4	26
22	Importance of coherence between geophysical and geotechnical data in dynamic response analysis. E3S Web of Conferences, 2019, 92, 18007.	0.2	1
23	Practical considerations for array-based surface-wave testing methods with respect to near-field effects and shear-wave velocity profiles. Journal of Applied Geophysics, 2019, 171, 103871.	0.9	3
24	Triaxial Simple Shear test: TxSS. E3S Web of Conferences, 2019, 92, 02014.	0.2	4
25	A laboratory-based study correlating cone penetration test resistance to the physical parameters of uncemented sand mixtures and granular soils. Engineering Geology, 2019, 255, 11-25.	2.9	6
26	Robustness of the P-RAT in the Shear-Wave Velocity Measurement of Soft Clays. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	7
27	Non-linear soil modelling by correction of the hysteretic damping using a modified Iwan model together with Masing rules. International Journal of Geotechnical Engineering, 2019, 13, 581-593.	1.1	3
28	Characterization of Cold In-Place Recycled Materials at Young Age Using Shear Wave Velocity. Advances in Civil Engineering Materials, 2019, 8, 336-354.	0.2	1
29	Inspection of the lids of shallowly buried concrete structures based on the propagation of surface waves- PART II. Journal of Applied Geophysics, 2018, 148, 55-69.	0.9	5
30	Analysis of Characteristic Frequencies of Coupled Soil-Pile-Structure Systems. International Journal of Geomechanics, 2018, 18, 04018047.	1.3	3
31	Framework to assess pseudo-static approach for seismic stability of clayey slopes. Canadian Geotechnical Journal, 2018, 55, 1860-1876.	1.4	25
32	Use of pore pressure build-up as damage metric in computation of equivalent number of uniform strain cycles. Canadian Geotechnical Journal, 2018, 55, 538-550.	1.4	13
33	Why is there a discrepancy in shear wave velocity â€“ cone tip resistance (<i>V</i>_sâ€“<i>q</i>_c) correlationsâ€™ trends with respect to grain size?. Canadian Geotechnical Journal, 2018, 55, 1041-1047.	1.4	4
34	Micromechanics-based assessment of reliability and applicability of boundary measurements in symmetrical direct shear test. Canadian Geotechnical Journal, 2018, 55, 397-413.	1.4	2
35	Erratum for â€œAnalysis of Characteristic Frequencies of Coupled Soil-Pile-Structure Systemsâ€•by Mahmoud N. Hussien, Susumu Iai, and Mourad Karray. International Journal of Geomechanics, 2018, 18, 08218001.	1.3	0
36	On the behaviour of pile groups under combined lateral and vertical loading. Ocean Engineering, 2017, 131, 174-185.	1.9	38

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37	Shear wave velocity as function of cone penetration resistance and grain size for Holocene-age uncemented soils: a new perspective. Acta Geotechnica, 2017, 12, 1129-1158.	2.9	20
38	Vertical Load Effects on the Lateral Response of Piles in Layered Media. International Journal of Geomechanics, 2017, 17, .	1.3	9
39	Numerical investigation of the lateral response of battered pile foundations. International Journal of Geotechnical Engineering, 2017, 11, 376-392.	1.1	13
40	Influence of vertical loads on lateral response of pile foundationsÂinÂsands and clays. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 291-304.	3.7	60
41	Load sharing ratio of pile-raft system in loose sand: an experimental investigation. International Journal of Geotechnical Engineering, 2017, 11, 524-529.	1.1	7
42	Inspection of the lids of shallowly buried concrete structures based on the propagation of surface waves. Journal of Applied Geophysics, 2017, 136, 19-34.	0.9	7
43	Soil-pile-structure kinematic and inertial interaction observed in geotechnical centrifuge experiments. Soil Dynamics and Earthquake Engineering, 2016, 89, 75-84.	1.9	40
44	Shear wave velocity as a geotechnical parameter: an overview. Canadian Geotechnical Journal, 2016, 53, 252-272.	1.4	49
45	Kinematic and inertial forces in pile foundations under seismic loading. Computers and Geotechnics, 2015, 69, 166-181.	2.3	25
46	Measuring shear wave velocity of granular material using the piezoelectric ring-actuator technique (P-RAT). Canadian Geotechnical Journal, 2015, 52, 1302-1317.	1.4	33
47	On the influence of vertical loads on the lateral response of pile foundation. Computers and Geotechnics, 2014, 55, 392-403.	2.3	53
48	Reply to the discussion by P.K. Robertson on â€œInfluence of particle size on the correlation between shear wave velocity and cone tip resistanceâ€ Appears in the Canadian Geotechnical Journal, 49(1): 121â€“123 [doi: 10.1139/t11-100].. Canadian Geotechnical Journal, 2012, 49, 124-128.	1.4	3
49	Influence of particle size on the correlation between shear wave velocity and cone tip resistance. Canadian Geotechnical Journal, 2011, 48, 599-615.	1.4	39
50	Displacement functions for layered and inhomogeneous soils. International Journal of Geotechnical Engineering, 2011, 5, 151-163.	1.1	2
51	Numerical analysis of the effect of wall roughness in deep excavations in sand. International Journal of Geotechnical Engineering, 2011, 5, 315-327.	1.1	5
52	Assessment of deep compaction of the PÃ©ribonka dam foundation using â€œmodal analysis of surface wavesâ€•(MASW). Canadian Geotechnical Journal, 2010, 47, 312-326.	1.4	28
53	DÃ©tection des cavitÃ©s sous les pavages par lâ€™analyse modal des ondes de Rayleigh (MASW). Canadian Geotechnical Journal, 2009, 46, 424-437.	1.4	13
54	Modal analysis of surface wave in geotechnical investigation â€” case study. International Journal of Geotechnical Engineering, 2009, 3, 187-203.	1.1	2

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55	Techniques for mode separation in Rayleigh wave testing. Soil Dynamics and Earthquake Engineering, 2009, 29, 607-619.	1.9	23
56	Rectificatif: DÃ©tection des cavitÃ©s sous les pavages par lâ€™analyse modal des ondes de Rayleigh (MASW). Canadian Geotechnical Journal, 2009, 46, 607-607.	1.4	0
57	Significance and evaluation of Poisson's ratio in Rayleigh wave testing. Canadian Geotechnical Journal, 2008, 45, 624-635.	1.4	30
58	Investigation of the Concrete Lining after the Mont Blanc Tunnel Fire. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2007, 17, 123-132.	0.5	10
59	Investigation of Small- to Large-Strain Moduli Correlations of Rockfill Materials â€“ Application to Romaine-2 Dam. Canadian Geotechnical Journal, 0, , .	1.4	1
60	Critical Insights in Laboratory Shear Wave Velocity Correlations of Clays. Canadian Geotechnical Journal, 0, , .	1.4	0