Christopher R Mcgann

List of Publications by Year
in descending order

20 papers	339 citations	932766 10 h-index	839053 18 g-index
20 all docs	20 docs citations	20 times ranked	275 citing authors

#	Article	IF	Citations
1	Development of an empirical correlation for predicting shear wave velocity of Christchurch soils from cone penetration test data. Soil Dynamics and Earthquake Engineering, 2015, 75, 66-75.	1.9	53
2	Stabilized single-point 4-node quadrilateral element for dynamic analysis of fluid saturated porous media. Acta Geotechnica, 2012, 7, 297-311.	2.9	47
3	Applicability of Conventional p-y Relations to the Analysis of Piles in Laterally Spreading Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 557-567.	1.5	41
4	A stabilized single-point finite element formulation for three-dimensional dynamic analysis of saturated soils. Computers and Geotechnics, 2015, 66, 126-141.	2.3	31
5	A V_{S30} Map for New Zealand Based on Geologic and Terrain Proxy Variables and Field Measurements. Earthquake Spectra, 2019, 35, 1865-1897.	1.6	31
6	Applicability of existing empirical shear wave velocity correlations to seismic cone penetration test data in Christchurch New Zealand. Soil Dynamics and Earthquake Engineering, 2015, 75, 76-86.	1.9	21
7	Geotechnical aspects of the 2016 KaikÅ«ra earthquake on the South Island of New Zealand. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 117-141.	0.2	19
8	Numerical Assessment of Three-Dimensional Foundation Pinning Effects during Lateral Spreading at the Mataquito River Bridge. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	17
9	Numerical assessment of the influence of foundation pinning, deck resistance, and 3D site geometry on the response of bridge foundations to demands of liquefaction-induced lateral soil deformation. Soil Dynamics and Earthquake Engineering, 2015, 79, 379-390.	1.9	16
10	Simplified Procedure to Account for a Weaker Soil Layer in Lateral Load Analysis of Single Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1129-1137.	1.5	10
11	Development of a regional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0015.gif" overflow="scroll"><mml:msub subscriptshift="65%"><mml:mrow><mml:mi>V</mml:mi></mml:mrow><mml:mrow><mml:mi>s</mml:mi><mml:mn>30</mml:mn></mml:mrow></mml:msub></mml:math> model and typical V profiles for Christchurch, New Zealand from CPT data and region-specific CPT-V correlation. Soil Dynamics and Earthquake Engineering, 2017, 95, 48-60.	1.9	10
12	3D models of Quaternary-aged sedimentary successions within the Canterbury, New Zealand region. New Zealand Journal of Geology, and Geophysics, 2017, 60, 320-340.	1.0	10
13	2D Geotechnical site-response analysis including soil heterogeneity and wave scattering. Earthquake Spectra, 2022, 38, 1124-1147.	1.6	9
14	Empirical Correlation for Estimating Shear-Wave Velocity from Cone Penetration Test Data for Banks Peninsula Loess Soils in Canterbury, New Zealand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	5
15	Influence of Modeling Decisions on Three-Dimensional Finite Element Analysis of Two Existing Highway Bridges Subjected to Lateral Spreading. Transportation Research Record, 2016, 2592, 143-150.	1.0	4
16	Investigation of shear wave velocity depth variability, site classification, and liquefaction vulnerability identification using a near-surface V model of Christchurch, New Zealand. Soil Dynamics and Earthquake Engineering, 2017, 92, 692-705.	1.9	4
17	Parametric Assessment of Equivalent Static Procedure Accounting for Foundation-Pinning Effects in Analysis of Piled Bridge Abutments Subject to Lateral Spreading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	3
18	Assessment of Existing SPTâ€“CPT Correlations Using a New Zealand Database. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 04021131.	1.5	3

#	Article	IF	Citations
19	Comparison of a Christchurch-specific CPT-Vs correlation and Vs derived from surface wave analysis for strong motion station velocity characterisation. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 81-91.	0.2	3
20	Basin effects and limitations of 1D site response analysis from 2D numerical models of the Thorndon basin. Bulletin of the New Zealand Society for Earthquake Engineering, 2021, 54, 21-30.	0.2	2