Christopher R Mcgann

List of Publications by Year in Descending Order

20 papers	214 citations	9 h-index	14 g-index
20 ext. papers	277 ext. citations	2.9 avg, IF	3.1 L-index

#	Paper	IF	Citations
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	0.5	1
19	Assessment of Existing SPT–CPT Correlations Using a New Zealand Database. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2021**, 147, 04021131	3.4	0
18	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, 04020055	3.4	0
17	A VS30 Map for New Zealand Based on Geologic and Terrain Proxy Variables and Field Measurements. *Earthquake Spectra*, **2019**, 35, 1865-1897	3.4	8
16	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, 04018054	3.4	2
15	Development of a regional Vs30 model and typical Vs profiles for Christchurch, New Zealand from CPT data and region-specific CPT-Vs correlation. *Soil Dynamics and Earthquake Engineering*, **2017**, 95, 48-60	3.5	9
14	3D models of Quaternary-aged sedimentary successions within the Canterbury, New Zealand region. *New Zealand Journal of Geology, and Geophysics*, **2017**, 60, 320-340	1.6	10
13	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	3.5	4
12	Geotechnical aspects of the 2016 Kaikōura earthquake on the South Island of New Zealand. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2017**, 50, 117-141	0.5	17
11	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	1.7	2
10	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	3.5	35
9	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	3.5	17
8	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	3.5	9
7	A stabilized single-point finite element formulation for three-dimensional dynamic analysis of saturated soils. *Computers and Geotechnics*, **2015**, 66, 126-141	4.4	18
6	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	0.5	3
5	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, 04014037	3.4	12
4	Stabilized single-point 4-node quadrilateral element for dynamic analysis of fluid saturated porous media. *Acta Geotechnica*, **2012**, 7, 297-311	4.9	30

List of Publications

3	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	3.4	8
2	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	3.4	27
1	2D Geotechnical site-response analysis including soil heterogeneity and wave scattering. *Earthquake Spectra*,875529302110566	3.4	2