Brendon A Bradley

List of Publications by Year
in descending order

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Version: 2024-02-01

91 papers	3,249 citations	126858 33 h-index	175177 52 g-index
92 all docs	92 docs citations	92 times ranked	1813 citing authors

#	Article	IF	Citations
1	A generalized conditional intensity measure approach and holistic groundâ€motion selection. Earthquake Engineering and Structural Dynamics, 2010, 39, 1321-1342.	2.5	187
2	A ground motion selection algorithm based on the generalized conditional intensity measure approach. Soil Dynamics and Earthquake Engineering, 2012, 40, 48-61.	1.9	146
3	Evaluation of the Liquefaction Potential Index for Assessing Liquefaction Hazard in Christchurch, New Zealand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	120
4	Geotechnical aspects of the 22 February 2011 Christchurch earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2011, 44, 205-226.	0.2	119
5	Geotechnical reconnaissance of the 2010 Darfield (Canterbury) earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2010, 43, 243-320.	0.2	108
6	Empirical building fragilities from observed damage in the 2009 South Pacific tsunami. Earth-Science Reviews, 2011, 107, 156-173.	4.0	106
7	Correlation of Significant Duration with Amplitude and Cumulative Intensity Measures and Its Use in Ground Motion Selection. Journal of Earthquake Engineering, 2011, 15, 809-832.	1.4	100
8	Select Liquefaction Case Histories from the 2010â€“2011 Canterbury Earthquake Sequence. Earthquake Spectra, 2014, 30, 131-153.	1.6	89
9	The 2010â€“2011 Canterbury Earthquake Sequence: Environmental effects, seismic triggering thresholds and geologic legacy. Tectonophysics, 2016, 672-673, 228-274.	0.9	87
10	Ground Motion and Seismic Source Aspects of the Canterbury Earthquake Sequence. Earthquake Spectra, 2014, 30, 1-15.	1.6	86
11	A critical examination of seismic response uncertainty analysis in earthquake engineering. Earthquake Engineering and Structural Dynamics, 2013, 42, 1717-1729.	2.5	82
12	Spatial and Spectral Interpolation of Groundâ€Motion Intensity Measure Observations. Bulletin of the Seismological Society of America, 2018, 108, 866-875.	1.1	81
13	Strong ground motion characteristics observed in the 4 September 2010 Darfield, New Zealand earthquake. Soil Dynamics and Earthquake Engineering, 2012, 42, 32-46.	1.9	78
14	Liquefaction effects and associated damages observed at the Wellington CentrePort from the 2016 Kaikoura earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 152-173.	0.2	74
15	Groundâ€Motion Observations from the 14 November 2016M_wÂ7.8 Kaikoura, New Zealand, Earthquake and Insights from Broadband Simulations. Seismological Research Letters, 2017, 88, 740-756.	0.8	67
16	Empirical Correlations between Peak Ground Velocity and Spectrum-Based Intensity Measures. Earthquake Spectra, 2012, 28, 17-35.	1.6	66
17	The seismic demand hazard and importance of the conditioning intensity measure. Earthquake Engineering and Structural Dynamics, 2012, 41, 1417-1437.	2.5	63
18	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

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19	Intensity Measure Correlations Observed in the NGA-West2 Database, and Dependence of Correlations on Rupture and Site Parameters. Earthquake Spectra, 2017, 33, 145-156.	1.6	53
20	Challenges in Predicting Seismic Site Response with 1D Analyses: Conclusions from 114 KiKâ€net Vertical Seismometer Arrays. Bulletin of the Seismological Society of America, 2018, 108, 2816-2838.	1.1	53
21	Seismic loss estimation for efficient decision making. Bulletin of the New Zealand Society for Earthquake Engineering, 2009, 42, 96-110.	0.2	53
22	Spreading-Induced Damage to Short-Span Bridges in Christchurch, New Zealand. Earthquake Spectra, 2014, 30, 57-83.	1.6	51
23	Empirical correlation of PGA, spectral accelerations and spectrum intensities from active shallow crustal earthquakes. Earthquake Engineering and Structural Dynamics, 2011, 40, 1707-1721.	2.5	47
24	Site-specific and spatially-distributed ground-motion intensity estimation in the 2010â€“2011 Canterbury earthquakes. Soil Dynamics and Earthquake Engineering, 2014, 61-62, 83-91.	1.9	45
25	Empirical Correlations between Cumulative Absolute Velocity and Amplitude-Based Ground Motion Intensity Measures. Earthquake Spectra, 2012, 28, 37-54.	1.6	44
26	Probabilistic seismic performance and loss assessment of a bridgeâ€“foundationâ€“soil system. Soil Dynamics and Earthquake Engineering, 2010, 30, 395-411.	1.9	43
27	Ground motion selection for scenario ruptures using the generalised conditional intensity measure (GCIM) method. Earthquake Engineering and Structural Dynamics, 2015, 44, 1601-1621.	2.5	41
28	Empirical equations for the prediction of displacement spectrum intensity and its correlation with other intensity measures. Soil Dynamics and Earthquake Engineering, 2011, 31, 1182-1191.	1.9	40
29	A comparison of intensityâ€based demand distributions and the seismic demand hazard for seismic performance assessment. Earthquake Engineering and Structural Dynamics, 2013, 42, 2235-2253.	2.5	40
30	Ground motion selection for simulationâ€based seismic hazard and structural reliability assessment. Earthquake Engineering and Structural Dynamics, 2015, 44, 2321-2340.	2.5	39
31	Near-source strong ground motions observed in the 22 February 2011 Christchurch earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2011, 44, 181-194.	0.2	39
32	Epistemic Uncertainties in Component Fragility Functions. Earthquake Spectra, 2010, 26, 41-62.	1.6	38
33	Ground motion directionality in the 2010â€“2011 Canterbury earthquakes. Earthquake Engineering and Structural Dynamics, 2015, 44, 371-384.	2.5	36
34	Liquefactionâ€induced Damage and CPT Characterization of the Reclamations at CentrePort, Wellington. Bulletin of the Seismological Society of America, 2018, 108, 1695-1708.	1.1	34
35	Accuracy of approximate methods of uncertainty propagation in seismic loss estimation. Structural Safety, 2010, 32, 13-24.	2.8	33
36	Effect of lattice-shaped ground improvement geometry on seismic response of liquefiable soil deposits via 3-D seismic effective stress analysis. Soil Dynamics and Earthquake Engineering, 2013, 48, 35-47.	1.9	32

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37	Systematic Ground Motion Observations in the Canterbury Earthquakes and Region-Specific Non-Ergodic Empirical Ground Motion Modeling. Earthquake Spectra, 2015, 31, 1735-1761.	1.6	32
38	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
39	The effect of causal parameter bounds in PSHAâ€based ground motion selection. Earthquake Engineering and Structural Dynamics, 2016, 45, 1515-1535.	2.5	29
40	Design Seismic Demands from Seismic Response Analyses: A Probability-Based Approach. Earthquake Spectra, 2011, 27, 213-224.	1.6	28
41	Prediction of spatially distributed seismic demands in specific structures: Ground motion and structural response. Earthquake Engineering and Structural Dynamics, 2010, 39, 501-520.	2.5	27
42	Broadband Groundâ€Motion Simulation of the 2011 MwÂ6.2 Christchurch, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 2130-2147.	1.1	25
43	Hybrid broadband ground motion simulation validation of small magnitude earthquakes in Canterbury, New Zealand. Earthquake Spectra, 2020, 36, 673-699.	1.6	25
44	The Mw 7.6 Dusky Sound earthquake of 2009. Bulletin of the New Zealand Society for Earthquake Engineering, 2010, 43, 24-40.	0.2	25
45	Assessment of liquefaction evaluation procedures and severity index frameworks at Christchurch strong motion stations. Soil Dynamics and Earthquake Engineering, 2015, 79, 335-346.	1.9	24
46	Strong ground motion observations of engineering interest from the 14 November 2016 Mw7.8 KaikÅura, New Zealand earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 85-93.	0.2	24
47	Ground motion and site effect observations in the wellington region from the 2016 Mw7.8 KaikÅura, New Zealand earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 94-105.	0.2	24
48	Influence of Site Effects on Observed Ground Motions in the Wellington Region from the MwÂ7.8 KaikÅura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1722-1735.	1.1	23
49	Physical Hypotheses for Adjusting Coarse Profiles and Improving 1D Site-Response Estimation Assessed at 10 KiK-net Sites. Bulletin of the Seismological Society of America, 2020, 110, 1338-1358.	1.1	23
50	Lateral spreading displacements from the 2010 Darfield and 2011 Christchurch earthquakes. International Journal of Geotechnical Engineering, 2014, 8, 441-448.	1.1	22
51	Vs-Based Evaluation of Select Liquefaction Case Histories from the 2010â€“2011 Canterbury Earthquake Sequence. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 04017066.	1.5	22
52	Practiceâ€oriented estimation of the seismic demand hazard using ground motions at few intensity levels. Earthquake Engineering and Structural Dynamics, 2013, 42, 2167-2185.	2.5	21
53	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
54	Ground motion simulations of great earthquakes on the Alpine Fault: effect of hypocentre location and comparison with empirical modelling. New Zealand Journal of Geology, and Geophysics, 2017, 60, 188-198.	1.0	20

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55	Project AF8: developing a coordinated, multi-agency response plan for a future great Alpine Fault earthquake. New Zealand Journal of Geology, and Geophysics, 2018, 61, 389-402.	1.0	19
56	Ground motions and damage observations in the Marlborough region from the 2013 Lake Grassmere earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2013, 46, 169-187.	0.2	19
57	Geotechnical aspects of the 2016 KaikÅura earthquake on the South Island of New Zealand. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 117-141.	0.2	19
58	Period Dependence of Response Spectrum Damping Modification Factors due to Source- and Site-Specific Effects. Earthquake Spectra, 2015, 31, 745-759.	1.6	18
59	Strong ground motion characteristics observed in the 13 June 2011 M6.0 Christchurch, New Zealand earthquake. Soil Dynamics and Earthquake Engineering, 2016, 91, 23-38.	1.9	18
60	Response of instrumented buildings under the 2016 Kaikoura earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 237-252.	0.2	18
61	Seismic Hazard Epistemic Uncertainty in the San Francisco Bay Area and Its Role in Performance-Based Assessment. Earthquake Spectra, 2009, 25, 733-753.	1.6	15
62	Amplification of strong ground motions at Heathcote Valley during the 2010â€“2011 Canterbury earthquakes: Observation and 1D site response analysis. Soil Dynamics and Earthquake Engineering, 2017, 100, 345-356.	1.9	13
63	Methodology and computational implementation of a New Zealand Velocity Model (NZVM2.0) for broadband ground motion simulation. New Zealand Journal of Geology, and Geophysics, 2020, 63, 110-127.	1.0	12
64	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></m 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
65	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
66	A Neural Network for Automated Quality Screening of Ground Motion Records from Small Magnitude Earthquakes. Earthquake Spectra, 2019, 35, 1637-1661.	1.6	10
67	Development and Validation of Fragility Functions for Buried Pipelines Based on Canterbury Earthquake Sequence Data. Earthquake Spectra, 2019, 35, 1061-1086.	1.6	10
68	Benefits of site-specific hazard analyses for seismic design in New Zealand. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 92-99.	0.2	10
69	Prediction of spatially distributed seismic demands in specific structures: Structural response to loss estimation. Earthquake Engineering and Structural Dynamics, 2010, 39, 591-613.	2.5	9
70	2D Geotechnical site-response analysis including soil heterogeneity and wave scattering. Earthquake Spectra, 2022, 38, 1124-1147.	1.6	9
71	Component correlations in structureâ€specific seismic loss estimation. Earthquake Engineering and Structural Dynamics, 2010, 39, 237-258.	2.5	8
72	A Decision-Support Algorithm for Post-Earthquake Water Services Recovery and Its Application to the 22 February 2011 Mw6.2 Christchurch Earthquake. Earthquake Spectra, 2019, 35, 1397-1420.	1.6	7

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73	Nonstationary spatial correlation in New Zealand strong groundâ€motion data. Earthquake Engineering and Structural Dynamics, 2021, 50, 3421-3440.	2.5	7
74	Wellingtonâ€™s earthquake resilience: Lessons from the 2016 KaikÅura earthquake. Earthquake Spectra, 2020, 36, 1448-1484.	1.6	6
75	Representative ground-motion ensembles for several major earthquake scenarios in New Zealand. Bulletin of the New Zealand Society for Earthquake Engineering, 2014, 47, 231-252.	0.2	6
76	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
77	Ground motion simulation of hypothetical earthquakes in the upper North Island of New Zealand. New Zealand Journal of Geology, and Geophysics, 2021, 64, 570-588.	1.0	5
78	Soil profile characterisation of Christchurch Central Business District strong motion stations. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 146-156.	0.2	5
79	Validating the sliding mechanics of office-type furniture using shake-table experiments. Bulletin of the New Zealand Society for Earthquake Engineering, 2018, 51, 1-11.	0.2	5
80	Challenges in the definition of input motions for forensic ground-response analysis in the near-source region. Earthquake Spectra, 2021, 37, 2562-2595.	1.6	4
81	Seismic performance criteria based on response history analysis. Bulletin of the New Zealand Society for Earthquake Engineering, 2014, 47, 224-228.	0.2	4
82	Ground motion input for nonlinear response history analysis. Bulletin of the New Zealand Society for Earthquake Engineering, 2019, 52, 119-133.	0.2	4
83	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
84	Discussion on â€˜a framework for the evaluation of ground motion selection and modification proceduresâ€™ by N. Simon Kwong, Anil K. Chopra, and Robin K. McGuire. Earthquake Engineering and Structural Dynamics, 2015, 44, 817-821.	2.5	2
85	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
86	In situ conditions affecting the ductility capacity of lightly reinforced concrete wall structures in the Canterbury earthquake sequence. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 190-203.	0.2	2
87	Select Liquefaction Case Histories from the 2010â€“2011 Canterbury Earthquake Sequence. , 0, .		1
88	Ground motion simulations of Hope fault earthquakes. Bulletin of the New Zealand Society for Earthquake Engineering, 2019, 52, 152-171.	0.2	1
89	Reply to â€œComment on â€˜Broadband Groundâ€Motion Simulation of the 2011 MwÂ6.2 Christchurch, New Zealand, Earthquakeâ€™ by H. N. T. Razafindrakoto, B. A. Bradley, and R. W. Gravesâ€•by Guidotti etÂal.. Bulletin of the Seismological Society of America, 2019, 109, 2139-2139.	1.1	0
90	Re: Future direction of the NZSEE journal. Bulletin of the New Zealand Society for Earthquake Engineering, 2008, 41, 104.	0.2	0

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91	GMSimViz: Automated 3D Visualization of Ground Motion Simulation with Generic Mapping Tools (GMT). Journal of Open Source Software, 2019, 4, 808.	2.0	0