Scott J Brandenberg

List of Publications by Year in Descending Order

73 papers	928 citations	16 h-index	27 g-index
84 ext. papers	1,200 ext. citations	3.1 avg, IF	4.23 L-index

#	Paper	IF	Citations
73	Relational Database for Horizontal-to-Vertical Spectral Ratios. *Seismological Research Letters*, **2022**, 93, 1075-1088	3	2
72	An algorithm for generating spatially correlated random fields using Cholesky decomposition and ordinary kriging. *Computers and Geotechnics*, **2022**, 147, 104783	4.4	0
71	Settlement Rate Increase in Organic Soils Following Cyclic Loading. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2021**, 147, 04020153	3.4	3
70	Centrifuge testing of soil-structure interaction effects on cyclic failure potential of fine-grained soil. *Earthquake Spectra*, **2021**, 37, 1177-1198	3.4	1
69	Single-Frequency Method for Computing Seismic Earth Pressures. *Springer Transactions in Civil and Environmental Engineering*, **2021**, 1-10	0.4	1
68	Comparison of Near-Fault Displacement Interpretations from Field and Aerial Data for the M 6.5 and 7.1 Ridgecrest Earthquake Sequence Ruptures. *Bulletin of the Seismological Society of America*, **2021**, 111, 2317-2333	2.3	1
67	Enhancing Research in Natural Hazards Engineering Through the DesignSafe Cyberinfrastructure. *Frontiers in Built Environment*, **2020**, 6,	2.2	5
66	Disaster Risk Management Through the DesignSafe Cyberinfrastructure. *International Journal of Disaster Risk Science*, **2020**, 11, 719-734	4.6	8
65	Next-generation liquefaction database. *Earthquake Spectra*, **2020**, 36, 939-959	3.4	13
64	Database on seismic response of instrumented flood control levees. *Earthquake Spectra*, **2020**, 36, 924-938	3.4	0
63	Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence. *Seismological Research Letters*, **2020**, 91, 2024-2034	3	15
62	Liquefaction and Related Ground Failure from July 2019 Ridgecrest Earthquake Sequence. *Bulletin of the Seismological Society of America*, **2020**, 110, 1549-1566	2.3	7
61	Winkler Solution for Seismic Earth Pressures Exerted on Flexible Walls by Vertically Inhomogeneous Soil. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2020**, 146, 04020127	3.4	2
60	Multi-hazard system reliability of flood control levees. *Soil Dynamics and Earthquake Engineering*, **2019**, 124, 345-353	3.5	6
59	Total Stress Analysis of Soft Clay Ground Response in Centrifuge Models. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2019**, 145, 04019061	3.4	8
58	Experimental mapping of elastoplastic surfaces for sand using undrained perturbations. *Soils and Foundations*, **2018**, 58, 160-171	2.9	3
57	Winkler Stiffness Intensity for Flexible Walls Retaining Inhomogeneous Soil **2018**,		5

56	Next-Generation Liquefaction (NGL) Case History Database Structure **2018**,		3
55	Procedures from International Guidelines for Assessing Seismic Risk to Flood-Control Levees. *Earthquake Spectra*, **2017**, 33, 1191-1218	3.4	6
54	Influence of Wall Flexibility on Seismic Earth Pressures in Vertically Homogeneous Soil **2017**,		1
53	Approximate solution for seismic earth pressures on rigid walls retaining inhomogeneous elastic soil. *Soil Dynamics and Earthquake Engineering*, **2017**, 97, 468-477	3.5	16
52	DesignSafe: New Cyberinfrastructure for Natural Hazards Engineering. *Natural Hazards Review*, **2017**, 18, 06017001	3.5	109
51	Stress-Ratio-Based Interpretation of Modulus Reduction and Damping Curves. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2017**, 143, 06016021	3.4	4
50	iConsol.js: JavaScript Implicit Finite-Difference Code for Nonlinear Consolidation and Secondary Compression. *International Journal of Geomechanics*, **2017**, 17, 04016149	3.1	7
49	Factors and Processes Affecting Levee System Vulnerability. *San Francisco Estuary and Watershed Science*, **2016**, 14,	1.4	5
48	Characterization of Seismic Levee Fragility Using Field Performance Data. *Earthquake Spectra*, **2016**, 32, 193-215	3.4	15
47	Case Study of Parallel Bridges Affected by Liquefaction and Lateral Spreading. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 05016001	3.4	16
46	Closure to Kinematic Framework for Evaluating Seismic Earth Pressures on Retaining Walls by Scott J. Brandenberg, George Mylonakis, and Jonathan P. Stewart. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 07016014	3.4	
45	Seismic Levee System Fragility considering Spatial Correlation of Demands and Component Fragilities. *Earthquake Spectra*, **2016**, 32, 2207-2228	3.4	5
44	Erratum for Cyclic p-y Plasticity Model Applied to Pile Foundations in Sand by Jung In Choi, Myoung Mo Kim, and Scott J. Brandenberg. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 08216001	3.4	1
43	Prediction Equations for Estimating Shear-Wave Velocity from Combined Geotechnical and Geomorphic Indexes Based on Japanese Data Set. *Bulletin of the Seismological Society of America*, **2015**, 105, 1919-1930	2.3	12
42	Analysis of Drilled Shaft Settlement Caused by Liquefaction **2015**,		1
41	Kinematic Framework for Evaluating Seismic Earth Pressures on Retaining Walls. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2015**, 141, 04015031	3.4	34
40	Settlement Estimations of Peat during Centrifuge Experiments **2015**,		2
39	Cyclic p-y Plasticity Model Applied to Pile Foundations in Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2015**, 141, 04015013	3.4	15

38	Reset of Secondary Compression Clock for Peat by Cyclic Straining. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2015**, 141, 02815001	3.4	3
37	Vacuum Pluviation Device for Achieving Saturated Sand. *Geotechnical Testing Journal*, **2015**, 38, 20140173	1.3	
36	Centrifuge Modeling Studies of Site Response in Soft Clay over Wide Strain Range. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2014**, 140, 04013003	3.4	30
35	Dynamic Response of a Model Levee on Sherman Island Peat: A Curated Data Set. *Earthquake Spectra*, **2014**, 30, 639-656	3.4	5
34	p-y Plasticity Model for Nonlinear Dynamic Analysis of Piles in Liquefiable Soil. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1262-1274	3.4	28
33	Beam on Nonlinear Winkler Foundation and Modified Neutral Plane Solution for Calculating Downdrag Settlement. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1433-1442	3.4	7
32	Analysis of Three Bridges That Exhibited Various Performance Levels in Liquefied and Laterally Spreading Ground. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1035-1048	3.4	6
31	FEM Analysis of Dynamic Soil-Pile-Structure Interaction in Liquefied and Laterally Spreading Ground. *Earthquake Spectra*, **2013**, 29, 733-755	3.4	26
30	Laboratory Investigation of the Pre- and Post-Cyclic Volume Change Properties of Sherman Island Peat **2013**,		3
29	Cone Penetration Test-Based Ultrasonic Probe for P-Wave Reflection Imaging of Embedded Objects. *Journal of Bridge Engineering*, **2012**, 17, 940-950	2.7	9
28	Influence of Underlying Weak Soil on Passive Earth Pressure in Cohesionless Deposits. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2011**, 137, 273-278	3.4	3
27	Fragility Functions for Bridges in Liquefaction-Induced Lateral Spreads. *Earthquake Spectra*, **2011**, 27, 683-717	3.4	22
26	p-Wave Reflection Imaging of Submerged Soil Models Using Ultrasound. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 1358-1367	3.4	11
25	Weighted Residual Numerical Differentiation Algorithm Applied to Experimental Bending Moment Data. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 854-863	3.4	27
24	Shear wave velocity as function of standard penetration test resistance and vertical effective stress at California bridge sites. *Soil Dynamics and Earthquake Engineering*, **2010**, 30, 1026-1035	3.5	32
23	Geoengineering and Seismological Aspects of the Niigata-Ken Chuetsu-Oki Earthquake of 16 July 2007. *Earthquake Spectra*, **2009**, 25, 777-802	3.4	10
22	Different Approaches for Estimating Ground Strains from Pile Driving Vibrations at a Buried Archeological Site. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 1101-1112	3.4	6
21	Fast Stacking and Phase Corrections of Shear Wave Signals in a Noisy Environment. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2008**, 134, 1154-1165	3.4	27

20	Experimental Investigation of Grouted Helical Piers for Use in Foundation Rehabilitation. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2008**, 134, 1280-1289	3.4	9
19	Imaging a Grouted Column in a Centrifuge Model Using Shear Wave Velocity Tomography **2008**,		1
18	Sensitivity Study of an Older-Vintage Bridge Subjected to Lateral Spreading **2008**,		3
17	Effects of structural characterizations on fragility functions of bridges subject to seismic shaking and lateral spreading. *Earthquake Engineering and Engineering Vibration*, **2008**, 7, 369-382	2	49
16	Liquefaction-Induced Softening of Load Transfer between Pile Groups and Laterally Spreading Crusts. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2007**, 133, 91-103	3.4	32
15	Static Pushover Analyses of Pile Groups in Liquefied and Laterally Spreading Ground in Centrifuge Tests. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2007**, 133, 1055-1066	3.4	56
14	Seismic Design of Pile Foundations for Liquefaction Effects. *Geotechnical, Geological and Earthquake Engineering*, **2007**, 277-302	0.2	26
13	Behavior of Pile Foundations in Laterally Spreading Ground during Centrifuge Tests. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2005**, 131, 1378-1391	3.4	118
12	Experimental Observations of Inertial and Lateral Spreading Loads on Pile Groups during Earthquakes **2005**, 1		7
11	Discussion of Single Piles in Lateral Spreads: Field Bending Moment Evaluation by Ricardo Dobry, Tarek Abdoun, Thomas D. O'Rourke, and S.H. Goh. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2005**, 131, 529-531	3.4	7
10	Evaluating Pile Pinning Effects on Abutments Over Liquefied Ground **2005**, 306		6
9	Neutral Plane Solution for Liquefaction-Induced Down-Drag on Vertical Piles **2004**, 470		6
8	Nonlinear FE Analyses of Soil-Pile Interaction in Liquefying Sand **2004**, 403		2
7	On the combined effect of topographic irregularities and wave passage on the spatial variation of seismic ground motion. *Bulletin of Earthquake Engineering*,1	3.7	0
6	A relational database to support post-earthquake building damage and recovery assessment. *Earthquake Spectra*,875529302110611	3.4	2
5	Investigation of the M6.6 Niigata-Chuetsu Oki, Japan, earthquake of July 16, 2007. *US Geological Survey Open-File Report*,		10
4	Validating predicted site response in sedimentary basins from 3D ground motion simulations. *Earthquake Spectra*,875529302110731	3.4	
3	Simplified solution for seismic earth pressures exerted on flexible walls. *Earthquake Spectra*,875529302110833	3.4	0

2	Region-specific linear site amplification model for peaty organic soil sites in Hokkaido, Japan. *Earthquake Spectra*,875529302210829	3.4	
1	Site response of sedimentary basins and other geomorphic provinces in southern California. *Earthquake Spectra*,875529302210886	3.4	2