

Scott J Brandenburg

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,446
citations

361045

20
h-index

360668

35
g-index

84
all docs

84
docs citations

84
times ranked

865
citing authors

#	ARTICLE	IF	CITATIONS
1	DesignSafe: New Cyberinfrastructure for Natural Hazards Engineering. <i>Natural Hazards Review</i> , 2017, 18, .	0.8	195
2	Behavior of Pile Foundations in Laterally Spreading Ground during Centrifuge Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 1378-1391.	1.5	164
3	Static Pushover Analyses of Pile Groups in Liquefied and Laterally Spreading Ground in Centrifuge Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 1055-1066.	1.5	76
4	Effects of structural characterizations on fragility functions of bridges subject to seismic shaking and lateral spreading. <i>Earthquake Engineering and Engineering Vibration</i> , 2008, 7, 369-382.	1.1	55
5	Shear wave velocity as function of standard penetration test resistance and vertical effective stress at California bridge sites. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 1026-1035.	1.9	51
6	Kinematic Framework for Evaluating Seismic Earth Pressures on Retaining Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	50
7	Centrifuge Modeling Studies of Site Response in Soft Clay over Wide Strain Range. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	47
8	FEM Analysis of Dynamic Soil-Pile-Structure Interaction in Liquefied and Laterally Spreading Ground. <i>Earthquake Spectra</i> , 2013, 29, 733-755.	1.6	45
9	Liquefaction-Induced Softening of Load Transfer between Pile Groups and Laterally Spreading Crusts. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 91-103.	1.5	42
10	p-y Plasticity Model for Nonlinear Dynamic Analysis of Piles in Liquefiable Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1262-1274.	1.5	41
11	Weighted Residual Numerical Differentiation Algorithm Applied to Experimental Bending Moment Data. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 854-863.	1.5	40
12	Fragility Functions for Bridges in Liquefaction-Induced Lateral Spreads. <i>Earthquake Spectra</i> , 2011, 27, 683-717.	1.6	33
13	Next-generation liquefaction database. <i>Earthquake Spectra</i> , 2020, 36, 939-959.	1.6	33
14	Seismic Design of Pile Foundations for Liquefaction Effects. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2007, , 277-302.	0.1	31
15	Fast Stacking and Phase Corrections of Shear Wave Signals in a Noisy Environment. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 1154-1165.	1.5	31
16	Case Study of Parallel Bridges Affected by Liquefaction and Lateral Spreading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, .	1.5	31
17	Cyclic p-y Plasticity Model Applied to Pile Foundations in Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	28
18	Liquefaction and Related Ground Failure from July 2019 Ridgecrest Earthquake Sequence. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1549-1566.	1.1	27

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19	Characterization of Seismic Levee Fragility Using Field Performance Data. <i>Earthquake Spectra</i> , 2016, 32, 193-215.	1.6	25
20	Approximate solution for seismic earth pressures on rigid walls retaining inhomogeneous elastic soil. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 97, 468-477.	1.9	23
21	Prediction Equations for Estimating Shear Wave Velocity from Combined Geotechnical and Geomorphic Indexes Based on Japanese Data Set. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 1919-1930.	1.1	18
22	Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence. <i>Seismological Research Letters</i> , 2020, 91, 2024-2034.	0.8	17
23	p-Wave Reflection Imaging of Submerged Soil Models Using Ultrasound. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 1358-1367.	1.5	16
24	Disaster Risk Management Through the DesignSafe Cyberinfrastructure. <i>International Journal of Disaster Risk Science</i> , 2020, 11, 719-734.	1.3	15
25	Total Stress Analysis of Soft Clay Ground Response in Centrifuge Models. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	1.5	13
26	Neutral Plane Solution for Liquefaction-Induced Down-Drag on Vertical Piles. , 2004, , 470.		12
27	Experimental Observations of Inertial and Lateral Spreading Loads on Pile Groups during Earthquakes. , 2005, , 1.		12
28	Experimental Investigation of Grouted Helical Piers for Use in Foundation Rehabilitation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 1280-1289.	1.5	12
29	Geoengineering and Seismological Aspects of the Niigata-Ken Chuetsu-Oki Earthquake of 16 July 2007. <i>Earthquake Spectra</i> , 2009, 25, 777-802.	1.6	12
30	Cone Penetration Test-Based Ultrasonic Probe for P-Wave Reflection Imaging of Embedded Objects. <i>Journal of Bridge Engineering</i> , 2012, 17, 940-950.	1.4	12
31	iConsol.js: JavaScript Implicit Finite-Difference Code for Nonlinear Consolidation and Secondary Compression. <i>International Journal of Geomechanics</i> , 2017, 17, 04016149.	1.3	11
32	A relational database to support post-earthquake building damage and recovery assessment. <i>Earthquake Spectra</i> , 2022, 38, 1549-1569.	1.6	11
33	Beam on Nonlinear Winkler Foundation and Modified Neutral Plane Solution for Calculating Downdrag Settlement. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1433-1442.	1.5	10
34	Multi-hazard system reliability of flood control levees. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 124, 345-353.	1.9	10
35	Relational Database for Horizontal-to-Vertical Spectral Ratios. <i>Seismological Research Letters</i> , 2022, 93, 1075-1088.	0.8	10
36	Site response of sedimentary basins and other geomorphic provinces in southern California. <i>Earthquake Spectra</i> , 2022, 38, 2341-2370.	1.6	10

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37	Evaluating Pile Pinning Effects on Abutments Over Liquefied Ground. , 2005, , 306.		9
38	Winkler Solution for Seismic Earth Pressures Exerted on Flexible Walls by Vertically Inhomogeneous Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	9
39	Enhancing Research in Natural Hazards Engineering Through the DesignSafe Cyberinfrastructure. Frontiers in Built Environment, 2020, 6, .	1.2	9
40	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.	1.5	8
41	On the combined effect of topographic irregularities and wave passage on the spatial variation of seismic ground motion. Bulletin of Earthquake Engineering, 2022, 20, 3577-3592.	2.3	8
42	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.	1.5	7
43	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.	1.5	7
44	Dynamic Response of a Model Levee on Sherman Island Peat: A Curated Data Set. Earthquake Spectra, 2014, 30, 639-656.	1.6	7
45	Factors and Processes Affecting Levee System Vulnerability. San Francisco Estuary and Watershed Science, 2016, 14, .	0.2	7
46	Seismic Levee System Fragility considering Spatial Correlation of Demands and Component Fragilities. Earthquake Spectra, 2016, 32, 2207-2228.	1.6	7
47	Procedures from International Guidelines for Assessing Seismic Risk to Flood-Control Levees. Earthquake Spectra, 2017, 33, 1191-1218.	1.6	7
48	Winkler Stiffness Intensity for Flexible Walls Retaining Inhomogeneous Soil. , 2018, , .		7
49	Reset of Secondary Compression Clock for Peat by Cyclic Straining. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, 02815001.	1.5	5
50	Stress-Ratio-Based Interpretation of Modulus Reduction and Damping Curves. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	5
51	Validating predicted site response in sedimentary basins from 3D ground motion simulations. Earthquake Spectra, 2022, 38, 2135-2161.	1.6	5
52	Nonlinear FE Analyses of Soil-Pile Interaction in Liquefying Sand. , 2004, , 403.		4
53	Sensitivity Study of an Older-Vintage Bridge Subjected to Lateral Spreading. , 2008, , .		4
54	Laboratory Investigation of the Pre- and Post-Cyclic Volume Change Properties of Sherman Island Peat. , 2013, , .		4

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55	Next-Generation Liquefaction (NGL) Case History Database Structure. , 2018, , .		4
56	Settlement Rate Increase in Organic Soils Following Cyclic Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 04020153.	1.5	4
57	Influence of Underlying Weak Soil on Passive Earth Pressure in Cohesionless Deposits. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 273-278.	1.5	3
58	Settlement Estimations of Peat during Centrifuge Experiments. , 2015, , .		3
59	Experimental mapping of elastoplastic surfaces for sand using undrained perturbations. Soils and Foundations, 2018, 58, 160-171.	1.3	3
60	Database on seismic response of instrumented flood control levees. Earthquake Spectra, 2020, 36, 924-938.	1.6	3
61	Centrifuge testing of soil-structure interaction effects on cyclic failure potential of fine-grained soil. Earthquake Spectra, 2021, 37, 1177-1198.	1.6	3
62	An algorithm for generating spatially correlated random fields using Cholesky decomposition and ordinary kriging. Computers and Geotechnics, 2022, 147, 104783.	2.3	3
63	Dynamic Analyses of Soil-Pile-Structure Interaction in Laterally Spreading Ground during Earthquake Shaking. , 2005, , 218.		2
64	Analysis of Drilled Shaft Settlement Caused by Liquefaction. , 2015, , .		2
65	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, .	1.5	2
66	Simplified solution for seismic earth pressures exerted on flexible walls. Earthquake Spectra, 2022, 38, 1872-1892.	1.6	2
67	Observations and Analysis of Pile Groups in Liquefied and Laterally Spreading Ground in Centrifuge Tests. , 2005, , 161.		1
68	Imaging a Grouted Column in a Centrifuge Model Using Shear Wave Velocity Tomography. , 2008, , .		1
69	Influence of Wall Flexibility on Seismic Earth Pressures in Vertically Homogeneous Soil. , 2017, , .		1
70	Single-Frequency Method for Computing Seismic Earth Pressures. Springer Transactions in Civil and Environmental Engineering, 2021, , 1-10.	0.3	1
71	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.	1.1	1
72	Vacuum Pluviation Device for Achieving Saturated Sand. Geotechnical Testing Journal, 2015, 38, 355-360.	0.5	1

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73	Region-specific linear site amplification model for peaty organic soil sites in Hokkaido, Japan. Earthquake Spectra, 2022, 38, 2207-2234.	1.6	1
74	Numerical Study of Passive Load Transfer Softening Due to Underlying Soft Soil. , 2009, , .		0
75	CPTâ€Based Ultrasonic Probe for Pâ€Wave Reflection Imaging of Embedded Objects. , 2011, , .		0
76	Centrifuge Testing of Levees: Saturation Techniques during Model Construction. , 2015, , .		0
77	Closure to â€Kinematic Framework for Evaluating Seismic Earth Pressures on Retaining Wallsâ€ by Scott J. Brandenberg, George Mylonakis, and Jonathan P. Stewart. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, 07016014.	1.5	0
78	Methods for Probabilistic Seismic Levee System Reliability Analysis. , 2017, , .		0
79	Dataset for Empirical Assessment of Seismic Performance for Levees Founded on Peaty Organic Soils. , 2017, , .		0
80	Yield Surface Mapping and Triaxial Compression Test Data Curation. , 2018, , .		0
81	P-Wave Reflection Imaging of a Cast-in-Steel-Shell Bridge Foundation. , 2011, , .		0