Bruce L Kutter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 3,177 32 54 g-index

111 3,692 3 5.15 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
100	LEAP-ASIA-2019: Validation of centrifuge experiments and the generalized scaling law on liquefaction-induced lateral spreading. <i>Soil Dynamics and Earthquake Engineering</i> , 2022 , 157, 107237	3.5	O
99	Effects of the ratio between body forces and inter-particle forces on maximum void ratio. <i>Soils and Foundations</i> , 2020 , 60, 1-12	2.9	2
98	Database of rocking shallow foundation performance: Dynamic shaking. <i>Earthquake Spectra</i> , 2020 , 36, 960-982	3.4	10
97	Database of rocking shallow foundation performance: Slow-cyclic and monotonic loading. <i>Earthquake Spectra</i> , 2020 , 36, 1585-1606	3.4	6
96	LEAP-UCD-2017 V. 1.01 Model Specifications 2020 , 3-29		7
95	LEAP-2017: Comparison of the Type-B Numerical Simulations with Centrifuge Test Results 2020 , 187-2	18	2
94	Grain Size Analysis and Maximum and Minimum Dry Density Testing of Ottawa F-65 Sand for LEAP-UCD-2017 2020 , 31-44		9
93	LEAP-UCD-2017 Centrifuge Test at University of California, Davis 2020 , 255-276		1
92	Comparison of LEAP-UCD-2017 CPT Results 2020 , 117-129		6
91	Difference and Sensitivity Analyses of the LEAP-2017 Experiments 2020 , 131-156		
90	LEAP-UCD-2017 Comparison of Centrifuge Test Results 2020 , 69-103		11
89	Numerical Investigation of Mechanisms Affecting Performance of Cyclically Loaded Tension Piles in Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019 , 145, 04019086	3.4	3
88	Centrifuge Modeling of Cyclic Degradation of Axially Loaded Piles in Sand for Offshore Wind Turbine Structures. <i>International Journal of Offshore and Polar Engineering</i> , 2019 , 29, 172-181	1.7	3
87	Stress-strain response of the LEAP-2015 centrifuge tests and numerical predictions. <i>Soil Dynamics and Earthquake Engineering</i> , 2018 , 113, 804-818	3.5	20
86	LEAP-GWU-2015 centrifuge test at UC Davis. Soil Dynamics and Earthquake Engineering, 2018, 113, 663-	·6 3 .9	8
85	LEAP-GWU-2015 experiment specifications, results, and comparisons. <i>Soil Dynamics and Earthquake Engineering</i> , 2018 , 113, 616-628	3.5	57
84	Liquefaction experiment and analysis projects (LEAP): Summary of observations from the planning phase. <i>Soil Dynamics and Earthquake Engineering</i> , 2018 , 113, 714-743	3.5	33

83	Twenty-Four Centrifuge Tests to Quantify Sensitivity of Lateral Spreading to Dr and PGA 2018,		9
82	Centrifuge modeling and numerical analysis on seismic site response of deep offshore clay deposits. <i>Engineering Geology</i> , 2017 , 227, 54-68	6	8
81	Comparison of Liquefaction Constitutive Models for a Hypothetical Sand 2017 ,		1
80	Effect of Footing Shape and Embedment on the Settlement, Recentering, and Energy Dissipation of Shallow Footings Subjected to Rocking. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016070	3.4	20
79	Validation of ASCE 41-13 Modeling Parameters and Acceptance Criteria for Rocking Shallow Foundations. <i>Earthquake Spectra</i> , 2016 , 32, 1121-1140	3.4	14
78	Rationale for Shallow Foundation Rocking Provisions in ASCE 41-13. <i>Earthquake Spectra</i> , 2016 , 32, 1097	-3.419	19
77	Seismic Behavior of Frame-Wall-Rocking Foundation Systems. II: Dynamic Test Phase. <i>Journal of Structural Engineering</i> , 2015 , 141, 04015060	3	5
76	Seismic Behavior of Frame-Wall-Rocking Foundation Systems. I: Test Program and Slow Cyclic Results. <i>Journal of Structural Engineering</i> , 2015 , 141, 04015059	3	9
75	Shake Table Test of Large-Scale Bridge Columns Supported on Rocking Shallow Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015 , 141, 04015009	3.4	57
74	Static and seismic stability of sensitive clay slopes. <i>Soil Dynamics and Earthquake Engineering</i> , 2015 , 79, 118-129	3.5	15
73	Effects of Thixotropy and Cement Content on the Sensitivity of Soft Remolded Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04014095	3.4	4
72	Nonlinear SoilBoundationBtructure and StructureBoilBtructure Interaction: Engineering Demands. <i>Journal of Structural Engineering</i> , 2015 , 141, 04014177	3	21
71	Effect of earthquake-induced axial load fluctuations on asymmetric frameWallEocking foundation systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 1997-2013	4	2
70	New Database for Foundation and Ground Performance in Liquefaction Experiments. <i>Earthquake Spectra</i> , 2015 , 31, 2485-2509	3.4	11
69	Centrifuge Tests of Adjacent Mat-Supported Buildings Affected by Liquefaction. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04014118	3.4	25
68	Nonlinear SoilBoundationBtructure and StructureBoilBtructure Interaction: Centrifuge Test Observations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04013057	3.4	23
67	Design Considerations for Rocking Foundations on Unattached Piles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04014058	3.4	17
66	Seismic Design of Rocking Shallow Foundations: Displacement-Based Methodology. <i>Journal of Bridge Engineering</i> , 2014 , 19, 04014043	2.7	36

65	Seismic soil f oundation tructure interaction observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 48, 162-174	3.5	59
64	Effects of capillary number, Bond number, and gas solubility on water saturation of sand specimens. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 133-144	3.2	13
63	Nonlinear dynamic foundation and frame structure response observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 50, 117-133	3.5	39
62	Seismic System Identification Using Centrifuge-based Soil-Structure Interaction Test Data. <i>Journal of Earthquake Engineering</i> , 2013 , 17, 469-496	1.8	10
61	FEM Analysis of Dynamic Soil-Pile-Structure Interaction in Liquefied and Laterally Spreading Ground. <i>Earthquake Spectra</i> , 2013 , 29, 733-755	3.4	26
60	Demonstration of Compatible Yielding between Soil-Foundation and Superstructure Components. Journal of Structural Engineering, 2013 , 139, 1408-1420	3	29
59	Characterization of rocking shallow foundations using centrifuge model tests. <i>Earthquake Engineering and Structural Dynamics</i> , 2012 , 41, 1043-1060	4	60
58	Centrifuge Modeling of Bridge Systems Designed for Rocking Foundations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012 , 138, 335-344	3.4	75
57	Probabilistic Seismic Performance of Rocking-Foundation and Hinging-Column Bridges. <i>Earthquake Spectra</i> , 2012 , 28, 1423-1446	3.4	24
56	Centrifuge Testing of Rocking Foundations on Saturated Sand and Unconnected Piles: The Fluid Response 2012 ,		9
55	Centrifuge Modeling of Seismically Induced Uplift for the BART Transbay Tube. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 754-765	3.4	52
54	Modeling Input Motion Boundary Conditions for Simulations of Geotechnical Shaking Table Tests. <i>Earthquake Spectra</i> , 2010 , 26, 349-369	3.4	8
53	Application and Validation of Practical Tools for Nonlinear Soil-Foundation Interaction Analysis. <i>Earthquake Spectra</i> , 2010 , 26, 111-129	3.4	59
52	Contraction, Dilation, and Failure of Sand in Triaxial, Torsional, and Rotational Shear Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 1155-1165	2.4	11
51	Discussion of Analyzing Liquefaction-Induced Lateral Spreads Using Strength Ratios by S. M. Olson and C. I. Johnson. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 2008-2010	3.4	2
50	Contact Interface Model for Shallow Foundations Subjected to Combined Cyclic Loading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 407-419	3.4	49
49	Effects of Moment-to-Shear Ratio on Combined Cyclic Load-Displacement Behavior of Shallow Foundations from Centrifuge Experiments. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 1044-1055	3.4	54
48	Capacity, Settlement, and Energy Dissipation of Shallow Footings Subjected to Rocking. <i>Journal of</i>	3.4	130

(2004-2008)

47	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	3.4	27	
46	Numerical Simulation of a Soil Model-Model Container-Centrifuge Shaking Table System 2008,		3	
45	Effect of Critical Contact Area Ratio on Moment Capacity of Rocking Shallow Footings 2008,		4	
44	Postshaking Shear Strain Localization in a Centrifuge Model of a Saturated Sand Slope. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008 , 134, 164-174	3.4	42	
43	Centrifuge Testing of the Seismic Performance of a Submerged Cut-and-Cover Tunnel in Liquefiable Soil 2008 ,		14	
42	Nonlinear Shear Wave Propagation in Strain Stiffening and Strain Softening Soil 2008,		2	
41	A New Technique for Monitoring Movement of Buried Objects Using an Electrode Switching System. <i>Geotechnical Testing Journal</i> , 2008 , 31, 101335	1.3		
40	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	3.4	32	
39	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	3.4	56	
38	Seismic Design of Pile Foundations for Liquefaction Effects. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2007 , 277-302	0.2	26	
37	Shear Localization Due to Liquefaction-Induced Void Redistribution in a Layered Infinite Slope. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006 , 132, 1293-1303	3.4	47	
36	Physical modelling of dynamic behavior of soil-foundation-superstructure systems. <i>International Journal of Physical Modelling in Geotechnics</i> , 2006 , 6, 01-12	1	5	
35	Dynamic Response of Saturated Dense Sand in Laminated Centrifuge Container. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005 , 131, 598-609	3.4	71	
34	Behavior of Pile Foundations in Laterally Spreading Ground during Centrifuge Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005 , 131, 1378-1391	3.4	118	
33	Experimental Observations of Inertial and Lateral Spreading Loads on Pile Groups during Earthquakes 2005 , 1		7	
32	Centrifuge modeling of load-deformation behavior of rocking shallow foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2005 , 25, 773-783	3.5	150	
31	Discussion of Bingle Piles in Lateral Spreads: Field Bending Moment Evaluation By Ricardo Dobry, Tarek Abdoun, Thomas D. ORourke, and S.H. Goh. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005 , 131, 529-531	3.4	7	
30	Seismic Deformation of Bar Mat Mechanically Stabilized Earth Walls. II: A Multiblock Model. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004 , 130, 26-35	3.4	8	

29	Strength Loss and Localization at Silt Interlayers in Slopes of Liquefied Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004 , 130, 1192-1202	3.4	61
28	Seismic Deformation of Bar Mat Mechanically Stabilized Earth Walls. I: Centrifuge Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004 , 130, 14-25	3.4	18
27	Effects of Layer Thickness and Density on Settlement and Lateral Spreading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004 , 130, 603-614	3.4	21
26	Dynamic Experiments and Analyses of a Pile-Group-Supported Structure. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2001 , 127, 585-596	3.4	61
25	Observed Seismic Lateral Resistance of Liquefying Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2000 , 126, 898-906	3.4	111
24	Experimental Performance of a Seawall Model Under Seismic Conditions. <i>Soils and Foundations</i> , 2000 , 40, 77-91	2.9	O
23	New Tool for Shear Wave Velocity Measurements in Model Tests. <i>Geotechnical Testing Journal</i> , 2000 , 23, 444	1.3	22
22	Settlement, Sliding, and Liquefaction Remediation of Layered Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 1999 , 125, 968-978	3.4	38
21	Seismic Soil-Pile-Structure Interaction Experiments and Analyses. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 1999 , 125, 750-759	3.4	422
20	Centrifuge Testing of Remediation of Liquefaction at Bridge Sites. <i>Transportation Research Record</i> , 1998 , 1633, 26-37	1.7	3
19	Nonlinear Seismic Soil-Pile Structure Interaction. <i>Earthquake Spectra</i> , 1998 , 14, 377-396	3.4	68
18	Experience with the Use of Methylcellulose as a Viscous Pore Fluid in Centrifuge Models. <i>Geotechnical Testing Journal</i> , 1998 , 21, 365	1.3	87
17	Soil-Pile-Superstructure Interaction in Liquefiable Sand. <i>Transportation Research Record</i> , 1997 , 1569, 55-64	1.7	20
16	Constantp? and Constant Volume Friction Angles Are Different. <i>Geotechnical Testing Journal</i> , 1997 , 20, GTJ19970006	1.3	5
15	Liquefaction-Induced Lateral Spreading of Mildly Sloping Ground. <i>Journal of Geotechcnical Engineering</i> , 1994 , 120, 2236-2243		34
14	Liquefaction Mechanism for Layered Soils. <i>Journal of Geotechcnical Engineering</i> , 1994 , 120, 737-755		75
13	Elastic-viscoplastic modelling of the rate-dependent behaviour of clays. <i>Geotechnique</i> , 1992 , 42, 427-44	11 3.4	124
12	Stability of Leaning Towers. <i>Journal of Geotechcnical Engineering</i> , 1991 , 117, 297-318		12

LIST OF PUBLICATIONS

Closure to Estrength Parameters for Bearing Capacity of Sand Iby Bruce L. Kutter, Abbas Abghari, and James A. Cheney (April, 1988, Vol. 114, No. 4). *Journal of Geotechcnical Engineering*, **1989**, 115, 1818-1819

10	Dynamic centrifuge model tests on clay embankments. <i>Geotechnique</i> , 1989 , 39, 91-106 3.4	31
9	Centrifuge Modeling of Transport Processes for Pollutants in Soils. <i>Journal of Geotechcnical Engineering</i> , 1988 , 114, 185-205	74
8	Gravity-Scaled Tests on Blast-Induced Soil-Structure Interaction. <i>Journal of Geotechcnical Engineering</i> , 1988 , 114, 431-447	35
7	Strength Parameters for Bearing Capacity of Sand. <i>Journal of Geotechcnical Engineering</i> , 1988 , 114, 491-498	27
6	Seismically Induced Flow Slide on Centrifuge. <i>Journal of Geotechcnical Engineering</i> , 1988 , 114, 1442-1449	8
5	Discussion of Liquefaction Evaluation Procedure Lby Steve J. Poulos, Gonzalo Castro, and John W. France (June, 1985, Vol. 111, No. 6). <i>Journal of Geotechcnical Engineering</i> , 1988 , 114, 243-246	
4	Closure to Œarthquake Deformation of Centrifuge Model Banks ြby Bruce L. Kutter (December, 1984, Vol. 110, No. 12). <i>Journal of Geotechcnical Engineering</i> , 1987 , 113, 72-73	
3	Earthquake Deformation of Centrifuge Model Banks. <i>Journal of Geotechcnical Engineering</i> , 1984 , 110, 1697-1714	12
2	Deformation of centrifuge models of clay embankments due to Bumpy roadlearthquakes. International Journal of Soil Dynamics and Earthquake Engineering, 1983, 2, 199-205	1
1	Measuring Vertical Displacement Using Laser Lines and Cameras. <i>International Journal of Physical Modelling in Geotechnics</i> ,1-1	1