Ryosuke Uzuoka

List of Publications by Year
in descending order

72	1,220	430874	377865
papers	citations	18 h-index	34 g-index

75	75	75	583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FEM-FDM coupled liquefaction analysis of a porous soil using an elasto-plastic model. Flow, Turbulence and Combustion, 1994, 52, 209-245.	0.2	157
2	Liquefaction of Unsaturated Sand Considering the Pore Air Pressure and Volume Compressibility of the Soil Particle Skeleton. Soils and Foundations, 2008, 48, 87-99.	3.1	103
3	Dynamics of unsaturated poroelastic solids at finite strain. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 1535-1573.	3.3	90
4	Fluid dynamics based prediction of liquefaction induced lateral spreading. Computers and Geotechnics, 1998, 22, 243-282.	4.7	74
5	Coupled hydro-mechanical analysis of two unstable unsaturated slopes subject to rainfall infiltration. Engineering Geology, 2017, 216, 13-30.	6.3	74
6	LANDSLIDES DURING THE EARTHQUAKES ON MAY 26 AND JULY 26, 2003 IN MIYAGI, JAPAN. Soils and Foundations, 2005, 45, 149-163.	0.7	55
7	Three-dimensional numerical simulation of earthquake damage to group-piles in a liquefied ground. Soil Dynamics and Earthquake Engineering, 2007, 27, 395-413.	3.8	52
8	Importance of viscous fluid characteristics in liquefaction induced lateral spreading analysis. Computers and Geotechnics, 2000, 27, 199-224.	4.7	45
9	Prediction of pile response to lateral spreading by 3-D soilâ€“water coupled dynamic analysis: Shaking in the direction of ground flow. Soil Dynamics and Earthquake Engineering, 2008, 28, 421-435.	3.8	40
10	Numerical Analysis of Seismic Behavior of Embankments Founded on Liquefiable Soils. Soils and Foundations, 2000, 40, 21-39.	3.1	38
11	Prediction of pile response to lateral spreading by 3-D soilâ€“water coupled dynamic analysis: Shaking in the direction perpendicular to ground flow. Soil Dynamics and Earthquake Engineering, 2008, 28, 436-452.	3.8	38
12	Liquefaction induced lateral spread analysis using the CIP method. Computers and Geotechnics, 2001, 28, 549-574.	4.7	36
13	Possibility of Postliquefaction Flow Failure due to Seepage. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2004, 130, 707-716.	3.0	32
14	NUMERICAL SIMULATION OF FLOW FAILURE OF GEOMATERIALS BASED ON FLUID DYNAMICS. Soils and Foundations, 2005, 45, 155-165.	0.7	32
15	Volcanic mountain area disaster caused by the Iwateâ€“Miyagi Nairiku Earthquake of 2008, Japan. Soils and Foundations, 2012, 52, 168-184.	3.1	22
16	Evaluation of failure of slopes with shaking-induced cracks in response to rainfall. Landslides, 2022, 19, 119-136.	5.4	22
17	Three-Phase Seepage-Deformation Coupled Analysis about Unsaturated Embankment Damaged by Earthquake. International Journal of Geomechanics, 2016, 16, .	2.7	21
18	Influence of the sloping ground conditions and the subsequent shaking events on the pile group response subjected to kinematic interactions for a liquefiable sloping ground. Soil Dynamics and Earthquake Engineering, 2022, 152, 107036.	3.8	20

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19	LAS COLINAS LANDSLIDE CAUSED BY THE JANUARY 13, 2001 OFF THE COAST OF EL SALVADOR EARTHQUAKE. Journal of Japan Association for Earthquake Engineering, 2002, 2, 1-15.	0.3	18
20	Centrifuge model tests and effective stress analyses of offshore wind turbine systems with a suction bucket foundation subject to seismic load. Soils and Foundations, 2020, 60, 1546-1569.	3.1	18
21	Numerical Prediction of Seepage and Seismic Behavior of Unsaturated Fill Slope. Soils and Foundations, 2011, 51, 1075-1090.	3.1	17
22	EXPERIMENT AND IDEALIZATION OF THE VOLUMETRIC COMPRESSION CHARACTERISTICS OF CLEAN SAND AFTER UNDRAINED CYCLIC SHEAR. Doboku Gakkai Ronbunshu, 2004, 2004, 307-317.	0.2	15
23	3-DIMENSIONAL EFFECTIVE STRESS ANALYSIS OF A DAMAGED GROUP-PILE FOUNDATION ADJACENT TO A QUAY WALL. Journal of Japan Association for Earthquake Engineering, 2002, 2, 1-14.	0.3	15
24	Large Deformation Analysis in Geomechanics Using CIP Method. JSME International Journal Series B, 2004, 47, 735-743.	0.3	14
25	Geotechnical Hybrid Simulation System for One-Dimensional Consolidation Analysis. Soils and Foundations, 2007, 47, 1133-1140.	3.1	14
26	Numerical modeling of seepage and deformation of unsaturated slope subjected to post-earthquake rainfall. Computers and Geotechnics, 2022, 148, 104791.	4.7	14
27	LIQUEFACTION MECHANISM OF UNSATURATED VOLOCANIC SANDY SOILS. Doboku Gakkai Ronbunshuu C, 2006, 62, 546-561.	0.1	13
28	Seepage and Inertia Effect on Rate-Dependent Reaction of a Pile in Liquefied Soil. Soils and Foundations, 2008, 48, 15-25.	3.1	10
29	Change of Moisture and Suction Properties of Volcanic Sand Induced by Shaking Disturbance. Soils and Foundations, 2006, 46, 519-528.	3.1	9
30	Cyclic Shear Behavior of Unsaturated Volcanic Sandy Soil under Various Suction Conditions. , 2006, , 1133.		9
31	Novel adaptive time stepping method and its application to soil seismic liquefaction analysis. Soil Dynamics and Earthquake Engineering, 2015, 71, 100-113.	3.8	8
32	Las Colinas landslide: Rapid and long-traveling soil flow caused by the January 13, 2001, El Salvador earthquake. , 2004, , .		7
33	Seismic stability of embankments with different densities and upstream conditions related to the water level. Soils and Foundations, 2021, 61, 185-197.	3.1	7
34	PORE AIR PRESSURE EFFECT ON CYCLIC SHEAR BEHAVIOR OF UNSATURATED SANDY SOIL. Journal of Japan Society of Civil Engineers Ser C (Geosphere Engineering), 2013, 69, 386-403.	0.2	6
35	DYNAMIC ANALYSIS OF EMBANKMENT BASED ON THREE PHASE POROUS MEDIA THEORY USING ELASTO-PLASTIC CONSTITUTIVE MODEL FOR UNSATURATED SOIL. Journal of Japan Society of Civil Engineers Ser C (Geosphere Engineering), 2014, 70, 395-411.	0.2	6
36	Numerical simulation of cyclic behavior of dense sand using acyclic elasto-plastic model. , 2004, , 85-90.		6

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37	Numerical Analysis of Liquefaction in a River Levee on Soft Cohesive Ground. Journal of Disaster Research, 2012, 7, 711-717.	0.7	5
38	Estimation of Strong Ground Motions at Tsukidate Landslide Site during the 2003 Sanriku-Minami Earthquake. Journal of Japan Association for Earthquake Engineering, 2007, 7, 160-179.	0.3	5
39	Numerical Analysis of Rate-Dependent Reaction of Pile in Saturated or Liquefied Soil. , 2005, , 204.		4
40	Numerical simulation of 3D liquefaction disasters using an automatic time stepping method. Natural Hazards, 2015, 77, 1275-1287.	3.4	4
41	Performance of rocking foundations on unsaturated soil layers with variable groundwater levels. Geotechnique, 2022, 72, 984-997.	4.0	4
42	Liquefaction-induced volumetric change during re-consolidation ofsandy soil subjected to undrained cyclic loading histories. , 2004, , 199-206.		4
43	LIQUEFACTION ANALYSIS WITH SEEPAGE TO PARTIALLY SATURATED SURFACE SOIL. Doboku Gakkai Ronbunshu, 2001, 2001, 153-163.	0.2	3
44	Liquefaction analysis of a damaged river levee during the 2011 Tohoku earthquake. , 2014, , 673-677.		3
45	Soilâ€“Foundationâ€“Structure Interaction of Inelastic Structural Systems on Unsaturated Soil Layers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	3
46	UNIFIED ANALYSIS OF LIQUEFACTION AND FLOW PROCESSES OF INCLINED GROUND USING FLUIDAL ELASTO-PLASTIC MODEL. Doboku Gakkai Ronbunshu, 2002, 2002, 109-119.	0.2	2
47	Study of Seabed Pullout Resistance on a Quadrate Foundation Using Adaptive Time-Stepping Method. Marine Georesources and Geotechnology, 2016, 34, 234-243.	2.1	2
48	Dynamic centrifuge model tests on embankment with different upstream conditions. Japanese Geotechnical Society Special Publication, 2019, 7, 531-540.	0.2	2
49	Progressive Damage Simulation of Foundation Pile of the Showa Bridge Caused by Lateral Spreading During the 1964 Niigata Earthquake. , 2008, , 171-176.		2
50	COUPLED ANALYSIS OF SEEPAGE AND DEFORMATION OF RIVER LEVEE DURING OVERTOPPING. , 2011, , .		2
51	FLUIDAL-ELASTO-PLASTIC CONSTITUTIVE EQUATION OF SAND AND UNIFIED ANALYSES OF LIQUEFACTION AND FLOW PROCESSES OF GROUND. Doboku Gakkai Ronbunshu, 2002, 2002, 53-64.	0.2	1
52	CONFINING PRESSURE-DEPENDENCY OF BULK MODULUS OF SAND DURING LIQUEFACTION. Structural Engineering/Earthquake Engineering, 2006, 23, 149s-158s.	0.3	1
53	SIMPLIFIED PREDICTION FOR SETTLEMENT OF LIQUEFIED GROUND WITH ELASTO-PLASTIC MODEL. Doboku Gakkai Ronbunshuu C, 2007, 63, 806-811.	0.1	1
54	Three-phase coupled analysis of unsaturated embankment subjected to rainfall infiltration and seismic motion. , 2014, , 597-603.		1

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55	Large Deformation Analysis for Costal Geo-Disasters Using Continuum and Discrete Modeling. Springer Geology, 2013, , 13-29.	0.3	1
56	INFLUENCE OF DIFFERENT CONSOLIDATED HISTORY OF ALLUVIAL CLAY ON THE CHARACTERISTIC OF LIQUEFACTION IN RECLAIMED GROUND. Doboku Gakkai Ronbunshu, 2003, 2003, 15-30.	0.2	0
57	Closure to â€œPossibility of Postliquefaction Flow Failure due to Seepageâ€•by Noriaki Sento, Motoki Kazama, Ryosuke Uzuoka, Hirofumi Ohmura, and Makoto Ishimaru. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006, 132, 426-426.	3.0	0
58	TRACE OF LIQUEFACTION AND FLOW SLIDE BASED ON THE GEOSLICER SURVEY. Doboku Gakkai Ronbunshuu C, 2007, 63, 963-980.	0.1	0
59	Three-phase seepage-deformation coupled analysis for railway embankment damaged in 2004 Niigata-ken Chuetsu earthquake. Japanese Geotechnical Society Special Publication, 2016, 2, 942-947.	0.2	0
60	The Role and Impact of Geofluids in Geohazards. Geofluids, 2019, 2019, 1-3.	0.7	0
61	Validation of Numerical Analysis for Deformation of Clay Ground Based on Uncertainty Quantification. Lecture Notes in Civil Engineering, 2021, , 870-877.	0.4	0
62	Tsukidate failure compared with the other flow-type failure during 2003 earthquakes in Northern Japan. , 2009, , 185-200.		0
63	Numerical prediction of seepage and seismic behavior of unsaturated fill slope. , 2009, , .		0
64	The influence on the slope stability of the initial degree of saturation of a fill ground. , 2010, , 1267-1272.		0
65	Numerical simulation of an unsaturated slope failure during an earthquake. , 2010, , 1093-1099.		0
66	Influence of temperature rise under undrained condition on the shear behavior of unsaturated sandy soil considering solubility of gaseous components. , 2010, , 561-566.		0
67	The influence of time unit and element size with the numerical result of soil-water-air coupled unsaturated seepage analysis. , 2014, , 605-611.		0
68	Applicability of effective stress analysis for prediction of deformation during strong motion with long duration. , 2014, , 683-686.		0
69	Centrifuge modeling and finite element analysis for moisture and stress conditions in an embankment with deformation of foundation ground. , 2014, , 1049-1054.		0
70	Response of Slopes to Earthquakes and Rainfall. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 311-319.	0.3	0
71	Centrifuge Modeling to Evaluate the Seismic Response of Elastic and Inelastic Structures Embedded in Unsaturated Soil. , 2022, , .		0
72	Role of geophysical survey in geotechnical seismic analysis. , 2021, , .		0