

Ikuo Towhata

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,597
citations

304701

22
h-index

315719

38
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71
all docs

71
docs citations

71
times ranked

1024
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk evaluation and warning threshold of unstable slope using tilting sensor array. <i>Natural Hazards</i> , 2022, 114, 127-156.	3.4	2
2	Mechanism and future risk of slope instability induced by extreme rainfall event in Izu Oshima Island, Japan. <i>Natural Hazards</i> , 2021, 105, 501-530.	3.4	8
3	A study on particle breakage behavior during pile penetration process using acoustic emission source location. <i>Geoscience Frontiers</i> , 2020, 11, 413-427.	8.4	32
4	Estimation of ground response and local site effects for Vishakhapatnam, India. <i>Natural Hazards</i> , 2019, 97, 555-578.	3.4	14
5	Performance of piles with different configurations subjected to slope deformation induced by seismic liquefaction. <i>Engineering Geology</i> , 2019, 263, 105355.	6.3	16
6	Moving toward cities where earthquakes will not cause a grievous disaster. <i>Japan Architectural Review</i> , 2018, 1, 410-418.	1.1	3
7	A complete introduction to the SCJ proposal and its commentary on the development of seismically resilient cities. <i>Earthquake Engineering and Engineering Vibration</i> , 2018, 17, 677-691.	2.3	3
8	Feasibility study of using acoustic emission signals for investigation of pile spacing effect on group pile behavior. <i>Applied Acoustics</i> , 2018, 139, 189-202.	3.3	17
9	Early warning system using tilt sensors in Chibo, Kalimpong, Darjeeling Himalayas, India. <i>Natural Hazards</i> , 2018, 94, 727-741.	3.4	44
10	Sustainability in Geotechnical Engineering and Related Urban Issues – Editors' Note. <i>Indian Geotechnical Journal</i> , 2018, 48, 205-206.	1.4	1
11	Mitigation of Nonuniform Settlement of Structures due to Seismic Liquefaction. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	8
12	High Frequency Acoustic Emissions Observed during Model Pile Penetration in Sand and Implications for Particle Breakage Behavior. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	45
13	Experimental interpretation of seismically induced instability of mountain slopes. <i>Ce/Papers</i> , 2018, 2, 255-260.	0.3	0
14	Investigation of mechanical properties of soft rock due to laboratory reproduction of physical weathering process. <i>Soils and Foundations</i> , 2017, 57, 267-276.	3.1	5
15	DESIGN OF GRID-WALL SOIL IMPROVEMENT TO MITIGATE SOIL LIQUEFACTION DAMAGE IN RESIDENTIAL AREAS IN URAYASU. <i>Journal of Japan Society of Civil Engineers</i> , 2017, 5, 27-44.	0.2	6
16	Large-Scale Shake Table Test on Behavior of Underground Structure with the Curved Portion During an Earthquake. <i>Journal of Disaster Research</i> , 2017, 12, 868-881.	0.7	0
17	On ageing of liquefaction resistance of sand. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 800-805.	0.2	1
18	Behaviour and frequency characteristics of acoustic emissions from sandy ground under model pile penetration. <i>Near Surface Geophysics</i> , 2016, 14, 515-525.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Particle breakage and its influence on soil behavior under undrained condition. Japanese Geotechnical Society Special Publication, 2016, 2, 386-390.	0.2	2
20	Experimental Evaluation of Drainage Pipes as a Mitigation against Liquefaction-Induced Settlement of Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	16
21	New mitigation method for pipeline uplift during seismic event. Geotechnical Research, 2016, 3, 54-64.	1.4	4
22	Qualification of residential land from the viewpoint of liquefaction vulnerability. Soil Dynamics and Earthquake Engineering, 2016, 91, 260-271.	3.8	10
23	Application of Advanced Procedures to Model Tests on the Subsoil Behavior Under Vertical Loading of Group Pile in Sand. Indian Geotechnical Journal, 2016, 46, 64-76.	1.4	14
24	Site-specific ground response analysis and liquefaction assessment of Vijayawada city (India). Natural Hazards, 2016, 81, 705-724.	3.4	24
25	Dynamic behaviors of underground structures in E-Defense shaking experiments. Soil Dynamics and Earthquake Engineering, 2016, 82, 24-39.	3.8	45
26	Centrifuge modeling of shallow embedded foundations subjected to reverse fault rupture. Canadian Geotechnical Journal, 2016, 53, 505-519.	2.8	39
27	Compressibility of soils containing kaolinite in acidic environments. KSCE Journal of Civil Engineering, 2016, 20, 623-630.	1.9	29
28	Environmental geotechnics and education initiatives for recovery from the Fukushima I Nuclear Power Plant accident. Japanese Geotechnical Society Special Publication, 2016, 2, 1982-1985.	0.2	0
29	Precaution and early warning of surface failure of slopes using tilt sensors. Soils and Foundations, 2015, 55, 1086-1099.	3.1	115
30	Soft rock slope weathering due to rainwater.. Japanese Geotechnical Society Special Publication, 2015, 1, 56-61.	0.2	0
31	Monitoring of single-particle fragmentation process under static loading using acoustic emission. Applied Acoustics, 2015, 94, 39-45.	3.3	53
32	Mitigation of seismic settlement of light surface structures by installation of sheet-pile walls around the foundation. Soil Dynamics and Earthquake Engineering, 2015, 72, 108-118.	3.8	26
33	Acoustic emission characteristics of subsoil subjected to vertical pile loading in sand. Journal of Applied Geophysics, 2015, 119, 119-127.	2.1	24
34	Laboratory tests on cyclic undrained behavior of loose sand with cohesionless silt and its application to assessment of seismic performance of subsoil. Soil Dynamics and Earthquake Engineering, 2015, 79, 365-378.	3.8	10
35	Influence of particle characteristics on impact event of dry granular flow. Powder Technology, 2015, 270, 53-67.	4.2	56
36	Recent rainfall events and geotechnical thinking. Japanese Geotechnical Society Special Publication, 2015, 3, 7-10.	0.2	0

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37	Impact and cyclic shaking on loose sand properties in laminar box using gap sensors. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 66, 401-414.	3.8	9
38	Acceleration of aging effect of drained cyclic pre-shearing and high temperature consolidation on liquefaction resistance of sandy soils. <i>Japanese Geotechnical Journal</i> , 2014, 9, 707-719.	0.1	7
39	Experimental Study of Dry Granular Flow and Impact Behavior Against a Rigid Retaining Wall. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 713-729.	5.4	137
40	Pile group response to liquefaction-induced lateral spreading: E-Defense large shake table test. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 51, 35-46.	3.8	79
41	LIQUEFACTION-INDUCED DAMAGE TO STRUCTURES DURING THE 2011 GREAT EAST JAPAN EARTHQUAKE. <i>Journal of Japan Society of Civil Engineers</i> , 2013, 1, 181-193.	0.2	27
42	Dynamic analysis of ground with rigorous use of strain dependency and its application to seismic microzonation of alluvial plane. <i>Natural Hazards</i> , 2012, 64, 1079-1104.	3.4	1
43	Analysis of the mechanisms of slope failures triggered by the 2007 Chuetsu Oki earthquake. <i>Geotechnical and Geological Engineering</i> , 2011, 29, 695-708.	1.7	10
44	Displacement reducer fuses for improving seismic performance of caisson quay walls. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 1259-1288.	4.1	5
45	Compressibility of natural soils subjected to long-term acidic contamination. <i>Environmental Earth Sciences</i> , 2011, 64, 193-200.	2.7	46
46	Simple monitoring method for precaution of landslides watching tilting and water contents on slopes surface. <i>Landslides</i> , 2010, 7, 351-357.	5.4	97
47	Geotechnical characteristics of volcanic soil from seismically induced Aratozawa landslide, Japan. <i>Landslides</i> , 2010, 7, 503-510.	5.4	22
48	1-G model tests and hollow cylindrical torsional shear experiments on seismic residual displacements of fill dams from the viewpoint of seismic performance-based design. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 423-437.	3.8	23
49	Mitigation measures for pile groups behind quay walls subjected to lateral flow of liquefied soil: Shake table model tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 1043-1060.	3.8	23
50	Shaking Table Model Tests on Pile Groups behind Quay Walls Subjected to Lateral Spreading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 477-489.	3.0	83
51	Studying the effects of deformable panels on seismic displacement of gravity quay walls. <i>Ocean Engineering</i> , 2009, 36, 1129-1148.	4.3	25
52	Model tests on behaviour of gravity-type quay walls subjected to strong shaking. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2009, 42, 47-56.	0.5	11
53	Some Important Aspects of Physical Modelling of Liquefaction in 1-g Shaking Table. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
54	EFFECT OF NON PLASTIC SILT ON THE ANISOTROPIC BEHAVIOR OF SAND. <i>Soils and Foundations</i> , 2008, 48, 531-545.	3.1	58

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55	Development of new drain method for protection of existing pile foundations from liquefaction effects. Soil Dynamics and Earthquake Engineering, 2006, 26, 297-312.	3.8	12
56	Geotechnical Characteristics of Volcanic Soils Taken from Recent Eruptions. Geotechnical and Geological Engineering, 2006, 24, 129-161.	1.7	17
57	Development of Real-Time Safety Control System for Urban Gas Supply Network. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006, 132, 237-249.	3.0	36
58	Damage survey report of Pakistan earthquake. Journal of Japan Association for Earthquake Engineering, 2006, 6, 35-57.	0.3	0
59	LABORATORY INVESTIGATION ON RATE-DEPENDENT PROPERTIES OF SAND UNDERGOING LOW CONFINING EFFECTIVE STRESS. Soils and Foundations, 2005, 45, 43-60.	0.7	13
60	Prediction of Liquefaction-Induced Ground Deformation. , 2005, , 524.		0
61	Instrumented Model Slope Failure due to Water Seepage. Journal of Natural Disaster Science, 2004, 26, 15-26.	0.4	103
62	Undrained torsional shear tests on gravelly soils. Landslides, 2004, 1, 185-194.	5.4	39
63	VERIFICATION OF NUMERICAL ANALYSIS ON LATERAL FLOW OF LIQUEFIED GROUND BASED ON VISCOUS FLUID MODEL. Doboku Gakkai Ronbunshu, 2004, 2004, 25-36.	0.2	0
64	EXPERIMENTAL STUDY ON STRAIN-RATE DEPENDENCY IN POST-LIQUEFACTION BEHAVIOUR OF SAND. Doboku Gakkai Ronbunshu, 2001, 2001, 97-107.	0.2	2
65	Closure to "Flow Failure of Saturated Sand under Simultaneous Monotonic and Cyclic Stresses" by Jorge Meneses-Loja, Kenji Ishihara, and Ikuo Towhata. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 554.	3.0	0
66	Flow Failure of Saturated Sand under Simultaneous Monotonic and Cyclic Stresses. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 131-138.	3.0	6
67	STRESS STRAIN RELATIONSHIP OF SANDY SOILS OBTAINED FROM CENTRIFUGE SHAKING TABLE TESTS. Doboku Gakkai Ronbunshu, 1996, 1996, 73-82.	0.2	3
68	RECONNAISSANCE REPORT OF THE 1993 GUAM EARTHQUAKE. Doboku Gakkai Ronbunshu, 1995, 1995, 291-303.	0.2	0
69	AN ENERGY-BASED THREE-DIMENSIONAL MODEL TO PREDICT PERMANENT GROUND DISPLACEMENTS CAUSED BY LIQUEFACTION. Proceedings of the Jsce Earthquake Engineering Symposium, 1991, 21, 277-280.	0.1	0