Takeshi Katsumi

List of Publications by Year
in descending order

134	2,303	236925	233421
papers	citations	25 h-index	45 g-index

139	139	139	1232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluating the hydraulic conductivity of GCLs permeated with non-standard liquids. Geotextiles and Geomembranes, 2000, 18, 133-161.	4.6	398
2	Hydraulic Conductivity and Swelling of Nonprehydrated GCLs Permeated with Single-Species Salt Solutions. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 557-567.	3.0	315
3	Long-term barrier performance of modified bentonite materials against sodium and calcium permeant solutions. Geotextiles and Geomembranes, 2008, 26, 14-30.	4.6	208
4	Membrane behavior of bentonite-amended compacted clay. Soils and Foundations, 2014, 54, 329-344.	3.1	80
5	Hydraulic Conductivity of Nonprehydrated Geosynthetic Clay Liners Permeated with Inorganic Solutions and Waste Leachates. Soils and Foundations, 2007, 47, 79-96.	3.1	76
6	Soil excavation and reclamation in civil engineering: Environmental aspects. Soil Science and Plant Nutrition, 2015, 61, 22-29.	1.9	58
7	WATER INTERCEPTION OF LANDFILL COVER SYSTEMS UNDER UNSATURATED CONDITIONS. Soils and Foundations, 2003, 43, 1-16.	0.7	55
8	MSW fly ash stabilized with coal ash for geotechnical application. Journal of Hazardous Materials, 2000, 76, 265-283.	12.4	52
9	Geo-environmental issues induced by the 2011 off the Pacific Coast of Tohoku Earthquake and tsunami. Soils and Foundations, 2012, 52, 856-871.	3.1	49
10	Column percolation test for contaminated soils: Key factors for standardization. Journal of Hazardous Materials, 2016, 320, 326-340.	12.4	45
11	Utilization of Stainless-Steel Slag by Cement Hardening. Soils and Foundations, 1993, 33, 118-129.	3.1	44
12	Shear strength performance of marine sediments stabilized using cement, lime and fly ash. Construction and Building Materials, 2018, 184, 454-463.	7.2	44
13	Effect of Acid Rain on Lime and Cement Stabilized Soils. Soils and Foundations, 1996, 36, 91-99.	3.1	41
14	Two-dimensional DNAPL migration affected by groundwater flow in unconfined aquifer. Journal of Hazardous Materials, 2004, 110, 1-12.	12.4	35
15	Pore water pressure prediction for undrained heating of soils. Environmental Geotechnics, 2017, 4, 70-78.	2.3	35
16	Manganese removal from aqueous solution using a thermally decomposed leaf. Journal of Hazardous Materials, 2010, 177, 501-507.	12.4	33
17	Influence of pH on the membrane behavior of bentonite amended Fukakusa clay. Separation and Purification Technology, 2015, 141, 132-142.	7.9	33
18	Cd(II) adsorption on various adsorbents obtained from charred biomaterials. Journal of Hazardous Materials, 2010, 183, 410-420.	12.4	31

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19	A Simplified Image Analysis Method to Study LNAPL Migration in Porous Media. Soils and Foundations, 2011, 51, 835-847.	3.1	31
20	Temperature effects on the swelling capacity and barrier performance of geosynthetic clay liners permeated with sodium chloride solutions. Geotextiles and Geomembranes, 2012, 33, 25-33.	4.6	31
21	Effects of Water Content Distribution on Hydraulic Conductivity of Prehydrated GCLS against Calcium Chloride Solutions. Soils and Foundations, 2008, 48, 407-417.	3.1	29
22	Fabric effect on hydraulic conductivity of kaolin under different chemical and biochemical conditions. Soils and Foundations, 2013, 53, 680-691.	3.1	27
23	Measuring the kâ€“Sâ€“p relations on DNAPLs migration. Engineering Geology, 2003, 70, 351-363.	6.3	26
24	Leaf char: An alternative adsorbent for Cr(III). Desalination, 2010, 264, 70-77.	8.2	26
25	Evaluating the hydraulic barrier performance of soil-bentonite cutoff walls using the piezocone penetration test. Soils and Foundations, 2016, 56, 277-290.	3.1	26
26	Comparison of prehydration and polymer adding effects on Na activated Ca-bentonite by free swell index test. Applied Clay Science, 2017, 142, 69-80.	5.2	26
27	Potential of zero-valent iron in remediation of Cd(II) contaminated soil: From laboratory experiment, mechanism study to field application. Soils and Foundations, 2019, 59, 2099-2109.	3.1	23
28	GENERATION AND MANAGEMENT OF DISASTER WASTE. Soils and Foundations, 1996, 36, 349-358.	0.7	18
29	Hydraulic Barrier Performance of SBM Cut-Off Wall Constructed by the Trench Cutting and Re-Mixing Deep Wall Method. , 2008, , .		18
30	Redox Effects on Heavy Metal Attenuation in Landfill Clay Liner. Soils and Foundations, 2002, 42, 115-126.	3.1	17
31	Evaluation of Waste Sludge Compatibility for Landfill Cover Application. Soils and Foundations, 2002, 42, 13-27.	3.1	16
32	Experimental Study on the Measurement of S-p Relations of LNAPL in a Porous Medium. Soils and Foundations, 2007, 47, 33-45.	3.1	15
33	Engineering Properties of Soil Stabilized by Ferrum Lime and Used for the Application of Road Base. Soils and Foundations, 1999, 39, 31-41.	3.1	14
34	Arsenic Removal from Contaminated Groundwater by Zero Valent Iron: a Mechanistic and Long-Term Performance Study. Soils and Foundations, 2011, 51, 369-377.	3.1	13
35	Modeling cake filtration under coupled hydraulic, electric and osmotic effects. Journal of Membrane Science, 2011, 378, 485-494.	8.2	13
36	Hydraulic and sorption performances of soil amended with calcium-magnesium composite powder against natural arsenic contamination. Soils and Foundations, 2020, 60, 1084-1096.	3.1	13

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37	Electricâ€“hydraulicâ€“chemical coupled modeling of solute transport through landfill clay liners. Applied Clay Science, 2014, 101, 541-552.	5.2	12
38	Redox Effect on the Hydraulic Conductivity of Clay Liner. Soils and Foundations, 2002, 42, 79-91.	3.1	12
39	Membrane behavior of bentonite-amended compacted clay towards Zn(II) and Pb(II). Membrane Water Treatment, 2015, 6, 393-409.	0.5	11
40	Environmental assessment and accounting for the waste disposal stream in Bangkok, Thailand. Journal of Material Cycles and Waste Management, 2011, 13, 139-149.	3.0	10
41	Hydraulic performance and chemical compatibility of a powdered Na-bentonite geosynthetic clay liner permeated with mine drainage. Soils and Foundations, 2019, 59, 1128-1147.	3.1	10
42	Woods Charred at Low Temperatures and Their Modification for the Adsorption of Cr(VI) Ions from Aqueous Solution. Adsorption Science and Technology, 2010, 28, 419-435.	3.2	9
43	Evaluating the Long-Term Leaching Characteristics of Heavy Metals in Excavated Rocks. Zairyo/Journal of the Society of Materials Science, Japan, 2014, 63, 73-78.	0.2	9
44	Distribution and physicochemical properties of tsunami deposits generated by the 2011 Great East Japan earthquake. Japanese Geotechnical Journal, 2013, 8, 391-402.	0.1	9
45	Effect of Acid Buffering Capacity on the Long-Term Mobility of Heavy Metals in Clay Liner. Soils and Foundations, 2004, 44, 111-120.	3.1	8
46	Chloride Transport through Cement-Bentonite Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 175-185.	3.0	8
47	Impact of Drainage Conditions on the Thermal Volume Change of Soft Clay. , 2016, , .		8
48	Speciation and Mobility Assessment of Zinc in Coastal Landfill Sites with MSW Incinerator Ash. Journal of Environmental Engineering, ASCE, 2010, 136, 762-768.	1.4	7
49	Selected Geotechnical and Geoenvironmental Aspects of Landfills in Japan. Journal of the Indian Institute of Science, 2021, 101, 589-602.	1.9	7
50	Influence of bio-clogging on permeability characteristics of soil. Geotextiles and Geomembranes, 2021, 49, 707-721.	4.6	7
51	Towards Sustainable Soil Management â€" Reuse of Excavated Soils with Natural Contamination â€". Environmental Science and Engineering, 2019, , 99-118.	0.2	7
52	Comment on JHM 142 (2007) 1â€“53 â€˜Arsenic removal from waterâ€“wastewater using adsorbentsâ€"A critical reviewâ€™ by D Mohan and CU Pittman Jr.. Journal of Hazardous Materials, 2010, 175, 1116-1117.	12.4	6
53	Aging effects on the mechanical property of waste mixture in coastal landfill sites. Soils and Foundations, 2015, 55, 1441-1453.	3.1	6
54	QUALITY AND ITS VARIATION OF SOILS RECOVERED FROM DISASTER DEBRIS IN IWATE PREFECTURE AFTER THE 2011 EAST JAPAN EARTHQUAKE. Journal of Japan Society of Civil Engineers Ser C (Geosphere Engineering), 2016, 72, 252-264.	0.2	6

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55	Experimental Study on the Interface Transmissivity between Clay Layer and Steel Pile Installed at Waste Disposal Site. Zairyo/Journal of the Society of Materials Science, Japan, 2005, 54, 1100-1104.	0.2	5
56	Migration of different LNAPLs in subsurface under groundwater fluctuating conditions byÂthe simplified image analysis method. Journal of Geo-Engineering Sciences, 2016, 3, 15-30.	0.3	5
57	Sorption-desorption column tests to evaluate the attenuation layer using soil amended with a stabilising agent. Soils and Foundations, 2021, 61, 1112-1122.	3.1	5
58	Ground Improvement. Effect of the Mixing Properties on Hydraulic Containment Performance of Soil-Cement Applied to Cutoff Wall.. Zairyo/Journal of the Society of Materials Science, Japan, 2002, 51, 19-24.	0.2	5
59	HEAVY METALS RETENTION IN GEOSYNTHETIC CLAY LINERS AND ITS POTENTIAL ROLE IN ACID ROCK DRAINAGE TREATMENT. Geosynthetics Engineering Journal, 2010, 25, 233-240.	0.1	4
60	Performances of Landfill Liners under Dry and Wet Conditions. Geotechnical and Geological Engineering, 2011, 29, 881-898.	1.7	4
61	Application of grass char for Cd(II) treatment in column leaching test. Journal of Hazardous Materials, 2011, 185, 768-775.	12.4	4
62	Factors influencing hydraulic conductivity and metal retention capacity of geosynthetic clay liners exposed to acid rock drainage. Japanese Geotechnical Society Special Publication, 2016, 2, 2379-2384.	0.2	4
63	Effect of acidity on attenuation performance of sandy soil amended with granular calcium-magnesium composite. Soils and Foundations, 2021, 61, 1099-1111.	3.1	4
64	Physical and mechanical properties of waste ground at inert waste landfills. Waste Management, 2021, 132, 1-11.	7.4	4
65	Ground Improvement. Suitability Assessment of Bentonite-Soil Mixtures as the Landfill Bottom Liner Material.. Zairyo/Journal of the Society of Materials Science, Japan, 2002, 51, 36-41.	0.2	4
66	LONG-TERM PERFORMANCE OF GEOSYNTHETIC CLAY LINERS USED IN ACID ROCK DRAINAGE MITIGATION. Geosynthetics Engineering Journal, 2011, 26, 137-144.	0.1	4
67	Material reuse and recycling in construction works in Japan. Journal of Material Cycles and Waste Management, 2022, 24, 1216-1227.	3.0	4
68	FACTORS AFFECTING THE HYDRAULIC BARRIER PERFORMANCE OF SOIL-BENTONITE MIXTURE CUT-OFF WALL. Journal of Japan Society of Civil Engineers Ser C (Geosphere Engineering), 2012, 68, 1-14.	0.2	3
69	Influence of Compaction Degree on Membrane Behavior of Compacted Clay Amended with Bentonite. , 2014, , .		3
70	Cesium sorption/desorption characteristics of sodium bentonite affected by major cations in leachate from MSW incinerator ash. Japanese Geotechnical Society Special Publication, 2016, 2, 1841-1844.	0.2	3
71	SOILS RECOVERED FROM DISASTER DEBRIS – CHARACTERIZATION AND UTILIZATION –. Journal of Japan Society of Civil Engineers, 2017, 5, 145-156.	0.2	3
72	Evaluating Diffusion Parameters of Soil-Bentonite Mixture used for Containment. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 63-66.	0.2	3

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73	Laboratory tests on arsenic leaching from excavated shale rock by elevated temperatures. E3S Web of Conferences, 2020, 205, 09006.	0.5	3
74	Japanese Status on the use of Waste and By-Products in Geotechnical Applications. , 2004, , 22.		2
75	Suitability of the Solid Waste Utilization in Geotechnical Applications from a Viewpoint of Environmental Risk. , 2007, , 1.		2
76	Evaluating Effects of Air Sparging for In-situ Bioremediation. Zairyo/Journal of the Society of Materials Science, Japan, 2010, 59, 78-83.	0.2	2
77	Scale effects on the shear strength of waste in coastal landfill sites. Japanese Geotechnical Society Special Publication, 2016, 2, 1824-1828.	0.2	2
78	Analysis of the integrated data on disaster debris treatment in Yamada town, Iwate prefecture. Japanese Geotechnical Society Special Publication, 2016, 2, 154-157.	0.2	2
79	Applicability of Cement Stabilization Technique to the High Water Content Residue Generated from Treatment of Waste Slate Containing Non-Scattering Asbestos. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 71-74.	0.2	2
80	Soilâ€“Bentonite Cutoff Walls for Geoenvironmental Containment. Developments in Geotechnical Engineering, 2018, , 207-223.	0.6	2
81	Geotechnical Issues for Developing Coastal Waste Landfills. International Perspectives in Geography, 2019, , 105-115.	0.2	2
82	Ground Improvement. Performance of Cement-Bentonite Slurry Wall against Heavy Metals Containment.. Zairyo/Journal of the Society of Materials Science, Japan, 2000, 49, 22-25.	0.2	2
83	Transition of Ground Improvement Technologies in Japan. Zairyo/Journal of the Society of Materials Science, Japan, 2016, 65, 625-629.	0.2	2
84	Experimental Study on the Function of Drainage Layer Installed in Coastal Landfill Site. Zairyo/Journal of the Society of Materials Science, Japan, 2020, 69, 57-62.	0.2	2
85	Effectiveness of immobilizing agent used as a sorption layer against natural contamination. Japanese Geotechnical Society Special Publication, 2015, 1, 19-24.	0.2	2
86	Mechanical and leaching characteristics of inert waste landfills. Japanese Geotechnical Society Special Publication, 2020, 8, 164-169.	0.2	2
87	Evaluating the Leaching Characteristics of Waste Concrete Aggregate Using Acceleration Tests. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 66-70.	0.2	2
88	Recent Trends In Ground Improvement Technologies. Zairyo/Journal of the Society of Materials Science, Japan, 2013, 62, 287-293.	0.2	2
89	Sorption of suspended solids in drilling slurry against arsenic, fluorine, and lead. Japanese Geotechnical Journal, 2017, 12, 1-17.	0.1	2
90	Leaching characteristics of naturally derived toxic elements from soils in the western Osaka area: considerations from the analytical results under the Soil Contamination Countermeasures Act. Japanese Geotechnical Journal, 2020, 15, 119-130.	0.1	2

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91	Evaluating the arsenic attenuation of soil amended with calciumâ€“magnesium composites of different particle sizes. Soils and Foundations, 2022, 62, 101130.	3.1	2
92	Effects of adding slags on strength and leaching properties of soft soil. Journal of Material Cycles and Waste Management, 0, , .	3.0	2
93	Non-Dusty Treatment of Fluidized Bed Combustion Coal Fly Ash and Its Application to Soil Stabilization.. Zairyo/Journal of the Society of Materials Science, Japan, 1995, 44, 1003-1006.	0.2	1
94	Water Interception of Landfill Cover Systems Under Unsaturated Conditions. Soils and Foundations, 2003, 43, 1-16.	3.1	1
95	Evaluating Cr(VI) Leaching from Recycled Waste Concrete Aggregate Using Acceleration Tests. , 2008, , .		1
96	Centrifuge Model Tests on the Seismic Behavior of Soil-Bentonite Vertical Cutoff Wall. Zairyo/Journal of the Society of Materials Science, Japan, 2010, 59, 84-88.	0.2	1
97	Material Properties of Soils Recovered from Disaster Debris in Iwate Prefecture Generated by the 2011 Great East Japan Earthquake. , 2016, , .		1
98	Experimental Study on Self-Sealing Capability of Soil-Bentonite Cutoff Walls. Zairyo/Journal of the Society of Materials Science, Japan, 2016, 65, 6-9.	0.2	1
99	Design, installation, and maintenance of temporary storage sites for radioactive decontamination waste. Japanese Geotechnical Society Special Publication, 2016, 2, 2385-2390.	0.2	1
100	Soils recovered from disaster debris. Japanese Geotechnical Society Special Publication, 2016, 2, 1888-1892.	0.2	1
101	Particle size effects of contaminated gravel sand on the leaching of inorganic constituents in column percolation tests. Japanese Geotechnical Society Special Publication, 2016, 4, 154-157.	0.2	1
102	Monotonous decreasing leaching behavior of geogenic contamination from marine sediments by up-flow column percolation tests. Japanese Geotechnical Journal, 2021, 16, 209-220.	0.1	1
103	Utilization of Industrial Wastes by Solidification.. Zairyo/Journal of the Society of Materials Science, Japan, 1991, 40, 1538-1544.	0.2	1
104	Speciation and Mobility Assessment of Heavy Metals in the Coastal Municipal Solid Waste Incinerator Ash Landfill. Journal of ASTM International, 2009, 6, 1-12.	0.2	1
105	Ground Improvement. Impact Assessment of Environmental Quality and Its Control in Geotechnical Engineering.. Zairyo/Journal of the Society of Materials Science, Japan, 1998, 47, 112-115.	0.2	1
106	Leaching behavior of naturally-contained arsenic in marine sediment by the long-term column percolation test. Japanese Geotechnical Journal, 2020, 15, 675-682.	0.1	1
107	Prediction of column leaching behaviour based on batch leaching tests with different liquid to solid ratios. Japanese Geotechnical Society Special Publication, 2020, 8, 31-36.	0.2	1
108	Discussion of â€œInvestigation of Consolidation-Induced Solute Transport. I: Effect of Consolidation on Transport Parametersâ€•by J. Lee, P. J. Fox, and J. J. Lenhart. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1306-1307.	3.0	0

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109	Hydraulic Conductivity of Kaolin Permeated with Salt Solution. , 2011, , .		0
110	Experimental Studies on Hydraulic Barrier Performance and Quality Control of SBM Cut-Off Wall: Applicability of Piezocone Test. , 2012, , .		0
111	Geoenvironmental Issues for the Containment of Radioactively-Polluted Soil and Waste. , 2016, , .		0
112	Laboratory Tests on Thermal Improvement of Soft Clay Under Elevated Temperatures. Springer Series in Geomechanics and Geoengineering, 2019, , 75-82.	0.1	0
113	Long-Term Leaching Behavior of Marine Sediment by a Large Column Percolation Test. Zairyo/Journal of the Society of Materials Science, Japan, 2020, 69, 53-56.	0.2	0
114	Development of synthetic polymer grouting material. Japanese Geotechnical Journal, 2021, 16, 23-34.	0.1	0
115	Evaluating the performance of attenuation layer using the partition coefficients determined from column sorption test. Japanese Geotechnical Journal, 2021, 16, 131-141.	0.1	0
116	Effects of the properties of the materials on the strength development of steel slag-dredged soil mixtures. Japanese Geotechnical Journal, 2021, 16, 179-190.	0.1	0
117	Title is missing!. Zairyo/Journal of the Society of Materials Science, Japan, 2000, 49, 1160-1166.	0.2	0
118	Ground Improvement. Mechanical Properties of Lightweight Soil Mixed with Wasted Rigid PUF.. Zairyo/Journal of the Society of Materials Science, Japan, 2002, 51, 2-7.	0.2	0
119	In-Situ Containment For Waste Landfill and Contaminated Sites. , 2010, , 248-258.		0
120	Reclamation Type Landfill using Inert Waste Materials : Technical Issues behind the Development of a New Landfill Category. Material Cycles and Waste Management Research, 2012, 23, 382-391.	0.0	0
121	Mineral barriers against natural contamination from excavated rocks. , 2012, , 924-929.		0
122	Improvement of Dredged Sediment Using Air Bubbles or Carbonized Sewage Sludge. , 2012, , 1-14.		0
123	Recent Trends In Ground Improvement Technologies. Zairyo/Journal of the Society of Materials Science, Japan, 2013, 62, 390-395.	0.2	0
124	Technical Issues Relating to Leaching Test Methods for Soils. Material Cycles and Waste Management Research, 2014, 25, 369-377.	0.0	0
125	Separation Techniques for Disaster Waste Treatment. Material Cycles and Waste Management Research, 2015, 26, 397-410.	0.0	0
126	Technical Aspects of using MSW Incineration Residue as Construction Materials. Material Cycles and Waste Management Research, 2018, 29, 392-399.	0.0	0

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127	Water retention properties of sands mixed with Ca-Mg composites as attenuation layer. Japanese Geotechnical Society Special Publication, 2020, 8, 109-114.	0.2	0
128	Evaluating mass of soil particles eroded into geosynthetic drainage layer in landfill final cover system. Japanese Geotechnical Journal, 2020, 15, 131-144.	0.1	0
129	Influence of cement addition on barrier performance of soil-bentonite cut-off wall. Japanese Geotechnical Society Special Publication, 2020, 8, 96-101.	0.2	0
130	Verification of quality control and recycling effect of shield construction sludge. Japanese Geotechnical Journal, 2021, 16, 383-396.	0.1	0
131	Effects of Temperature on Consistency Limits and Consolidation Properties of Clayey Soils. Zairyo/Journal of the Society of Materials Science, Japan, 2022, 71, 83-90.	0.2	0
132	Effect of temperature on diffusion leaching characteristics of clays containing geogenic substances. Japanese Geotechnical Journal, 2022, 17, 181-194.	0.1	0
133	Test method of calcium and silica eluted from material of steel slag-dredged soil mixtures for predicting strength development. Japanese Geotechnical Journal, 2022, 17, 171-180.	0.1	0
134	Heat Transfer in Soft Clay: Pilot-Scale Experiment Using Solar Collectors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	0