

Jong-Sub Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5263195/publications.pdf>

Version: 2024-02-01

108
papers

2,386
citations

279701

23
h-index

243529

44
g-index

109
all docs

109
docs citations

109
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	Bender Elements: Performance and Signal Interpretation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 1063-1070.	1.5	550
2	Behavior of Rigid-Soft Particle Mixtures. Journal of Materials in Civil Engineering, 2007, 19, 179-184.	1.3	126
3	Characteristics of Rubber-Sand Particle Mixtures according to Size Ratio. Journal of Materials in Civil Engineering, 2010, 22, 323-331.	1.3	78
4	Behavior of sand-rubber particle mixtures: experimental observations and numerical simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 1651-1663.	1.7	77
5	Spatial Variability in Soils: High Resolution Assessment with Electrical Needle Probe. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2004, 130, 843-850.	1.5	62
6	Field velocity resistivity probe for estimating stiffness and void ratio. Soil Dynamics and Earthquake Engineering, 2010, 30, 1540-1549.	1.9	61
7	Underestimation of roughness in rough rock joints. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1385-1403.	1.7	60
8	A pressure core based characterization of hydrate-bearing sediments in the Ulleung Basin, Sea of Japan (East Sea). Journal of Geophysical Research, 2011, 116, .	3.3	56
9	Evaluation of the freezing-thawing effect in sand-silt mixtures using elastic waves and electrical resistivity. Cold Regions Science and Technology, 2015, 113, 1-11.	1.6	56
10	Geotechnical characterization of marine sediments in the Ulleung Basin, East Sea. Engineering Geology, 2011, 117, 151-158.	2.9	55
11	Micaceous Sands: Microscale Mechanisms and Macroscale Response. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1136-1143.	1.5	43
12	Analyses of GPR signals for characterization of ground conditions in urban areas. Journal of Applied Geophysics, 2018, 152, 65-76.	0.9	43
13	Void Ratio Estimation of Soft Soils Using Electrical Resistivity Cone Probe. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 86-93.	1.5	42
14	Estimation of Soil-Water Characteristic Curves in Multiple-Cycles Using Membrane and TDR System. Materials, 2016, 9, 1019.	1.3	39
15	Evaluation of rock bolt integrity using Fourier and wavelet transforms. Tunnelling and Underground Space Technology, 2012, 28, 304-314.	3.0	37
16	Seismic monitoring short-duration events: liquefaction in 1g models. Canadian Geotechnical Journal, 2007, 44, 659-672.	1.4	34
17	Nongrouted Ratio Evaluation of Rock Bolts by Reflection of Guided Ultrasonic Waves. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 298-307.	1.5	33
18	Silt fraction effects of frozen soils on frozen water content, strength, and stiffness. Construction and Building Materials, 2018, 183, 565-577.	3.2	32

#	ARTICLE	IF	CITATIONS
19	Characteristics of elastic waves in sand-silt mixtures due to freezing. <i>Cold Regions Science and Technology</i> , 2014, 99, 1-11.	1.6	30
20	Cementation and bond degradation of rubber-sand mixtures. <i>Canadian Geotechnical Journal</i> , 2010, 47, 763-774.	1.4	28
21	Mineral dissolution effects on mechanical strength. <i>Engineering Geology</i> , 2012, 125, 26-34.	2.9	27
22	Penetration Type Field Velocity Probe for Soft Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 199-206.	1.5	26
23	Stress-dependent and strength properties of gas hydrate-bearing marine sediments from the Ulleung Basin, East Sea, Korea. <i>Marine and Petroleum Geology</i> , 2013, 47, 66-76.	1.5	26
24	Characterization of rock weathering using elastic waves: A Laboratory-scale experimental study. <i>Journal of Applied Geophysics</i> , 2017, 140, 24-33.	0.9	22
25	Assessing subgrade strength using an instrumented dynamic cone penetrometer. <i>Soils and Foundations</i> , 2019, 59, 930-941.	1.3	21
26	Evaluation of preconsolidation stress by shear wave velocity. <i>Smart Structures and Systems</i> , 2011, 7, 275-287.	1.9	21
27	Characterisation of subsurface spatial variability using a cone resistivity penetrometer. <i>Soil Dynamics and Earthquake Engineering</i> , 2011, 31, 1064-1071.	1.9	20
28	Geotechnical and geophysical characteristics of muskeg samples from Alberta, Canada. <i>Engineering Geology</i> , 2015, 195, 135-141.	2.9	20
29	Instrumented Dynamic Cone Penetrometer Corrected with Transferred Energy into a Cone Tip: A Laboratory Study. <i>Geotechnical Testing Journal</i> , 2013, 36, 533-542.	0.5	20
30	Active layer characterization by instrumented dynamic cone penetrometer in Ny-Alesund, Svalbard. <i>Cold Regions Science and Technology</i> , 2014, 104-105, 45-53.	1.6	19
31	Non-destructive evaluation of the grouted ratio of a pipe roof support system in tunneling. <i>Tunnelling and Underground Space Technology</i> , 2016, 56, 1-11.	3.0	19
32	Elastic wave characterization of controlled low-strength material using embedded piezoelectric transducers. <i>Construction and Building Materials</i> , 2016, 127, 210-219.	3.2	18
33	Application of time domain reflectometer for detecting necking defects in bored piles. <i>NDT and E International</i> , 2018, 100, 132-141.	1.7	18
34	Characteristics of Elastic Waves According to Cementation of Dissolved Salt. <i>Vadose Zone Journal</i> , 2010, 9, 662-669.	1.3	17
35	Prediction of crack density in porous-cracked rocks from elastic wave velocities. <i>Journal of Applied Geophysics</i> , 2015, 115, 110-119.	0.9	17
36	Role of the coefficient of uniformity on the California bearing ratio, penetration resistance, and small strain stiffness of coarse arctic soils. <i>Cold Regions Science and Technology</i> , 2019, 160, 230-241.	1.6	17

#	ARTICLE	IF	CITATIONS
37	Cone Penetrometer with a Helical-Type Outer Screw Rod for Evaluation of the Subgrade Condition. <i>Journal of Transportation Engineering</i> , 2013, 139, 115-122.	0.9	16
38	Deformation of "tunable" clay-polymer composites. <i>Applied Clay Science</i> , 2014, 101, 265-271.	2.6	16
39	Detection of smear zone using micro-cone and electrical resistance probe. <i>Canadian Geotechnical Journal</i> , 2009, 46, 719-726.	1.4	15
40	Capillary Induced Small-Strain Stiffness for Hydrophilic and Hydrophobic Granular Materials: Experimental and Numerical Studies. <i>Soils and Foundations</i> , 2011, 51, 713-721.	1.3	15
41	Evolution of layered physical properties in soluble mixture: Experimental and numerical approaches. <i>Engineering Geology</i> , 2012, 143-144, 37-42.	2.9	15
42	Energy correction of dynamic cone penetration index for reliable evaluation of shear strength in frozen sand-silt mixtures. <i>Acta Geotechnica</i> , 2020, 15, 947-961.	2.9	15
43	Characterization of railway substructure using a hybrid cone penetrometer. <i>Smart Structures and Systems</i> , 2015, 15, 1085-1101.	1.9	15
44	Discontinuity detection ahead of a tunnel face utilizing ultrasonic reflection: Laboratory scale application. <i>Tunnelling and Underground Space Technology</i> , 2009, 24, 155-163.	3.0	14
45	Effect of Secondary Impacts on SPT Rod Energy and Sampler Penetration. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 522-526.	1.5	14
46	Microcones configured with full-bridge circuits. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 41, 119-127.	1.9	14
47	Theoretical relationship between elastic wave velocity and electrical resistivity. <i>Journal of Applied Geophysics</i> , 2015, 116, 51-61.	0.9	14
48	Dynamic Cone Penetrometer Incorporated with Time Domain Reflectometry (TDR) Sensors for the Evaluation of Water Contents in Sandy Soils. <i>Sensors</i> , 2019, 19, 3841.	2.1	14
49	Experimental and numerical studies on group velocity of ultrasonic guided waves in rock bolts with different grouted ratios. <i>Computers and Geotechnics</i> , 2019, 114, 103130.	2.3	14
50	Strength and stiffness assessment of railway track substructures using crosshole-type dynamic cone penetrometer. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 100, 88-97.	1.9	14
51	FORK BLADE-TYPE FIELD VELOCITY PROBE FOR MEASURING SHEAR WAVES. <i>Modern Physics Letters B</i> , 2008, 22, 965-969.	1.0	12
52	Cone penetrometer incorporated with dynamic cone penetration method for investigation of track substructures. <i>Smart Structures and Systems</i> , 2016, 18, 197-216.	1.9	12
53	Smart Sensing Using Electromagnetic Waves for Inspection of Defects in Rock Bolts. <i>Sensors</i> , 2020, 20, 2821.	2.1	11
54	Effects of rock weathering on guided wave propagation in rock bolts. <i>Tunnelling and Underground Space Technology</i> , 2021, 115, 104069.	3.0	11

#	ARTICLE	IF	CITATIONS
55	Geophysical Monitoring Techniques for Underwater Landslide in 1g Models. Journal of Environmental and Engineering Geophysics, 2010, 15, 1-19.	1.0	10
56	Effects of temperature compensation on electrical resistivity during subsurface characterization. Acta Geotechnica, 2015, 10, 275-287.	2.9	10
57	Nondestructive Integrity Evaluation of Soil Nails Using Longitudinal Waves. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	10
58	Volume, strength, and stiffness characteristics of expandable foam grout. Construction and Building Materials, 2021, 274, 122013.	3.2	10
59	Experiment Setup for Shear Wave and Electrical Resistance Measurements in an Oedometer. Geotechnical Testing Journal, 2008, 31, 100720.	0.5	10
60	Geotechnical issues related to renewable energy. KSCE Journal of Civil Engineering, 2011, 15, 635-642.	0.9	9
61	Nondestructive health monitoring of soil nails using electromagnetic waves. Canadian Geotechnical Journal, 2018, 55, 79-89.	1.4	9
62	Estimation of ground cavity configurations using ground penetrating radar and time domain reflectometry. Natural Hazards, 2018, 92, 1789-1807.	1.6	9
63	Circular time-domain reflectometry system for monitoring bridge scour depth. Marine Georesources and Geotechnology, 2020, 38, 312-321.	1.2	9
64	Coarse-fine mixtures subjected to repetitive Ko loading: Effects of fines fraction, particle shape, and size ratio. Powder Technology, 2021, 377, 575-584.	2.1	9
65	Shear strength and interface friction characteristics of expandable foam grout. Construction and Building Materials, 2020, 249, 118719.	3.2	9
66	Four Electrode Resistivity Probe for Porosity Evaluation. Geotechnical Testing Journal, 2011, 34, 668-675.	0.5	9
67	Characterization of deep sea sediments from the continental margin off Costa Rica. Ocean Engineering, 2016, 111, 13-21.	1.9	8
68	Evaluation of Water Content in an Active Layer Using Penetration-Type Time Domain Reflectometry. Applied Sciences (Switzerland), 2018, 8, 935.	1.3	8
69	Instrumented Cone Penetrometer for Dense Layer Characterization. Sensors, 2020, 20, 5782.	2.1	7
70	Effects of frozen water content and silt fraction on unconfined compressive behavior of fill materials. Construction and Building Materials, 2021, 266, 120912.	3.2	7
71	Comparative Study on Estimation Methods of Dynamic Resistance Using Dynamic Cone Penetrometer. Sensors, 2021, 21, 3085.	2.1	7
72	Stiffness evaluation of compacted geo-materials using crosshole-type dynamic cone penetrometer (CDP), rPLT, and LFWD. Construction and Building Materials, 2021, 303, 124015.	3.2	7

#	ARTICLE	IF	CITATIONS
73	Nondestructive detection of cavities beneath concrete plates using ground penetrating radar and microphone. <i>NDT and E International</i> , 2022, 130, 102663.	1.7	7
74	Slime thickness evaluation of bored piles by electrical resistivity probe. <i>Journal of Applied Geophysics</i> , 2014, 108, 167-175.	0.9	6
75	Modified Fixed Wall Oedometer When Considering Stress Dependence of Elastic Wave Velocities. <i>Sensors</i> , 2020, 20, 6291.	2.1	6
76	Compressibility, stiffness and electrical resistivity characteristics of sand-diatom mixtures. <i>Geotechnique</i> , 2022, 72, 1068-1081.	2.2	6
77	Evaluation of driving energy transferred to split spoon sampler for accuracy improvement of standard penetration test. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 188, 110384.	2.5	6
78	Analytical and experimental studies to obtain electrical resistivity in a small-scaled laboratory test. <i>Geophysics</i> , 2017, 82, E267-E275.	1.4	5
79	Non-destructive Method for Evaluating Grouted Ratio of Soil Nail Using Electromagnetic Wave. <i>Journal of Nondestructive Evaluation</i> , 2019, 38, 1.	1.1	5
80	Variations in Velocity and Sensitivity of Electromagnetic Waves in Transmission Lines Configured in Model Piles with Necking Defects Containing Soils. <i>Sensors</i> , 2020, 20, 6541.	2.1	5
81	Evolution of Small Strain Soil Stiffness during Freeze-Thaw Cycle: Transition from Capillarity to Cementation Examined Using Magnetic and Piezo Crystal Sensors. <i>Sensors</i> , 2021, 21, 2992.	2.1	5
82	Scour-monitoring techniques for offshore foundations. <i>Smart Structures and Systems</i> , 2015, 16, 667-681.	1.9	5
83	Evaluation of Compressive Strength and Stiffness of Grouted Soils by Using Elastic Waves. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	0.8	4
84	Study of Activation Energy in Soil through Elastic Wave Velocity and Electrical Resistivity. <i>Vadose Zone Journal</i> , 2017, 16, 1-9.	1.3	4
85	Evaluation of engineering properties of expandable foam grout with admixture content. <i>Construction and Building Materials</i> , 2021, 293, 123488.	3.2	4
86	Evaluation of Rock Bolt Integrity using Guided Ultrasonic Waves. <i>Geotechnical Testing Journal</i> , 2009, 32, 31-38.	0.5	4
87	Effect of ocean environmental particles on compressibility, electrical resistivity, and stiffness characteristics of mixtures. <i>Engineering Geology</i> , 2022, 304, 106675.	2.9	4
88	Application of shear wave velocity for evaluation of equivalent radius of penetrometers. <i>Journal of Applied Geophysics</i> , 2012, 86, 8-16.	0.9	3
89	Capillary effect in salt-cemented media of particle sizes. <i>Journal of Applied Geophysics</i> , 2015, 112, 20-28.	0.9	3
90	Strength Characteristics of Sand-Silt Mixtures Subjected to Cyclic Freezing-Thawing-Repetitive Loading. <i>Sensors</i> , 2020, 20, 5381.	2.1	3

#	ARTICLE	IF	CITATIONS
91	Evaluation of the Shear Strength and Stiffness of Frozen Soil with a Low Water Content. Journal of Engineering Geology, 2015, 25, 93-102.	0.1	3
92	Estimation of bulk electrical conductivity in saline medium with contaminated lead solution through TDR coupled with machine learning. Chemical Engineering Research and Design, 2022, 161, 58-66.	2.7	3
93	Electrical Resistivity of Soils Due to Cyclic Freezing and Thawing. , 2013, , .		2
94	Geotechnical and Geoacoustic Properties of Volcanic Soil in Ulleung Island, East Sea of Korea. Marine Georesources and Geotechnology, 2016, 34, 659-667.	1.2	2
95	Slime-meter for assessment of slime thickness based on electrical properties in borehole. Automation in Construction, 2020, 119, 103328.	4.8	2
96	Estimation of Cavities beneath Plate Structures Using a Microphone: Laboratory Model Tests. Sensors, 2021, 21, 2941.	2.1	2
97	Phase velocity evaluation of two-layered gypsums by using wavelet transform. KSCE Journal of Civil Engineering, 2013, 17, 357-363.	0.9	1
98	Properties and Variation of Electrical Resistivity Due to Temperature Change. , 2014, , .		1
99	Evolution of pore structure and hydraulic conductivity of randomly distributed soluble particle mixture. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 768-780.	1.7	1
100	Performance Evaluation of GFRP Rock Bolt Sensor for Rock Slope Monitoring by Double Shear Test. Advances in Civil Engineering, 2020, 2020, 1-14.	0.4	1
101	Evaluation of Thawing and Stress Restoration Method for Artificial Frozen Sandy Soils Using Sensors. Sensors, 2021, 21, 1916.	2.1	1
102	Response of Transitional Mixtures Retaining Memory of In-Situ Overburden Pressure Monitored Using Electromagnetic and Piezo Crystal Sensors. Sensors, 2021, 21, 2570.	2.1	1
103	End-Bearing Capacity of Embedded Piles with Inclined-Base Plate: Laboratory Model Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 04020063.	1.5	1
104	Detection of Cavities Beneath Plate Structure using a Microphone. Korean Society of Hazard Mitigation, 2020, 20, 229-237.	0.1	1
105	Characteristics of Strength and Water Content of Mountain Ground Based on Rainfall Conditions. Korean Society of Hazard Mitigation, 2019, 19, 115-125.	0.1	1
106	Liquefaction: Strength and Wave-Based Monitoring. , 2005, , 463.		0
107	Application of dynamic and static cone penetrometer for characterization of railway substructure. Japanese Geotechnical Society Special Publication, 2016, 2, 1628-1631.	0.2	0
108	MONITORING OF CO2 HYDRATE FORMATION IN SEDIMENTS USING COMPRESSIONAL WAVE VELOCITY. , 2008, , .		0