

# Louis Ge

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,189  
citations

331259

21  
h-index

414034

32  
g-index

82  
all docs

82  
docs citations

82  
times ranked

962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemically Stabilized Soft Clays for Road-Base Construction. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	90
2	Modeling of minimum void ratio for sand-silt mixtures. Engineering Geology, 2015, 196, 293-304.	2.9	71
3	Effects of chemical stabilizers on an expansive clay. KSCE Journal of Civil Engineering, 2014, 18, 1009-1017.	0.9	63
4	Changes of Atterberg limits and electrochemical behaviors of clays with dispersants as conditioning agents for EPB shield tunnelling. Tunnelling and Underground Space Technology, 2018, 73, 244-251.	3.0	61
5	Laboratory investigation of the strength, stiffness, and thermal conductivity of fly ash and lime kiln dust stabilised clay subgrade materials. Road Materials and Pavement Design, 2015, 16, 928-945.	2.0	60
6	Factors Influencing Crack-Induced Tensile Strength of Compacted Soil. Journal of Materials in Civil Engineering, 2012, 24, 315-320.	1.3	56
7	Evaluation of the scale of fluctuation of geotechnical parameters by autocorrelation function and semivariogram function. Engineering Geology, 2016, 214, 43-49.	2.9	53
8	A case history of field pumping tests in a deep gravel formation in the Taipei Basin, Taiwan. Engineering Geology, 2011, 117, 17-28.	2.9	50
9	Evaluation of the wall deflections of a deep excavation in Central Jakarta using three-dimensional modeling. Tunnelling and Underground Space Technology, 2018, 72, 84-96.	3.0	46
10	Cyclic Behaviors of Railroad Ballast within the Parallel Gradation Scaling Framework. Journal of Materials in Civil Engineering, 2012, 24, 797-804.	1.3	40
11	Assessment of empirical equations for the compression index of fine-grained soils in Missouri. Bulletin of Engineering Geology and the Environment, 2015, 74, 705-716.	1.6	39
12	A simple data reduction method for pumping tests with tidal, partial penetration, and storage effects. Soils and Foundations, 2013, 53, 894-902.	1.3	33
13	Investigation on the shear moduli and damping ratios of silica gel. Granular Matter, 2014, 16, 449-456.	1.1	32
14	Laboratory tests for permeability of sand during liquefaction. Soil Dynamics and Earthquake Engineering, 2017, 100, 249-256.	1.9	31
15	Modified Time of Setting Test for Fly Ash Paste and Fly Ash-Soil Mixtures. Journal of Materials in Civil Engineering, 2013, 25, 296-301.	1.3	30
16	Modeling Permanent Deformation of Unbound Granular Materials under Repeated Loads. International Journal of Geomechanics, 2010, 10, 236-241.	1.3	28
17	Assessment of strength development of slag cement stabilized kaolinite. Construction and Building Materials, 2018, 184, 492-501.	3.2	28
18	Slope creep behavior: observations and simulations. Environmental Earth Sciences, 2015, 73, 275-287.	1.3	26

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19	Strain-Controlled Cyclic Simple Shear Tests on Sand with Radial Strain Measurements. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	26
20	Cement Hydration-Based Micromechanics Modeling of the Time-Dependent Small-Strain Stiffness of Fly Ash-Stabilized Soils. International Journal of Geomechanics, 2016, 16, 04015071.	1.3	23
21	Enhanced series-parallel model for estimating the time-dependent thermal conductivity of fly ash soil mixtures. Granular Matter, 2015, 17, 579-592.	1.1	21
22	The critical state and steady state of sand: A literature review. Marine Georesources and Geotechnology, 2019, 37, 1105-1118.	1.2	20
23	Centrifuge Modeling and Mitigation of Manhole Uplift due to Liquefaction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 458-469.	1.5	17
24	Modeling Slope Topography Using Unmanned Aerial Vehicle Image Technique. MATEC Web of Conferences, 2018, 147, 07002.	0.1	13
25	Stiffness degradation of coarse and fine sand mixtures due to cyclic loading. Engineering Geology, 2021, 288, 106155.	2.9	12
26	Low Viscosity Pore Fluid to Manufacture Transparent Soil. Geotechnical Testing Journal, 2010, 33, 463-468.	0.5	12
27	Radial Strain Behaviors and Stress State Interpretation of Soil Under Direct Simple Shear. Journal of Testing and Evaluation, 2015, 43, 1594-1601.	0.4	12
28	Centrifuge modeling of failure behaviors of sandy slope caused by gravity, rainfall, and base shaking. Engineering Geology, 2020, 271, 105609.	2.9	11
29	Effects of Parallel Gradation on Strength Properties of Ballast Materials. , 2007, , 1.		10
30	Investigation of the Thermal Conductivity of Compacted Silts and Its Correlation to the Elastic Modulus. Journal of Materials in Civil Engineering, 2010, 22, 408-412.	1.3	10
31	Mechanical Properties of Gravel Deposits Evaluated by Nonconventional Methods. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	10
32	Breakage behavior of gravel rock particles under impact force. Computational Particle Mechanics, 2021, 8, 1075-1087.	1.5	10
33	Permeability Characteristics of Poorly Graded Sand Conditioned with Foam in Different Conditioning States. Journal of Testing and Evaluation, 2021, 49, 3620-3636.	0.4	10
34	Ultrasonic Pulse Velocity Tests on Compacted Soil. , 2009, , .		9
35	Laboratory Evaluation of the Briard Compaction Device. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1543-1546.	1.5	9
36	Effect of Parallel Gradations on Crushed Rock-Concrete Interface Behaviors. Journal of Testing and Evaluation, 2012, 40, 103773.	0.4	9

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37	A case study on TBM cutterhead temperature monitoring and mud cake formation discrimination method. Scientific Reports, 2021, 11, 19983.	1.6	9
38	Performance of artificial neural network and convolutional neural network on slope failure prediction using data from the random finite element method. Acta Geotechnica, 2022, 17, 5801-5811.	2.9	9
39	Estimation of settlement after soil liquefaction for structures built on shallow foundations. Soil Dynamics and Earthquake Engineering, 2020, 129, 105916.	1.9	8
40	Scale of Fluctuation of Geotechnical Parameters Estimated from CPTu and Laboratory Test Data. , 2013, , .		7
41	Spatial Variation and Correlation between Undrained Shear Strength and Plasticity Index. , 2011, , .		6
42	Effective Tensile Strength of Lightly Cemented Sand. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	6
43	Method of estimating the effective zone induced by rapid impact compaction. Scientific Reports, 2021, 11, 18336.	1.6	6
44	A Large-Scale Triaxial Apparatus for Prototype Railroad Ballast Testing. Geotechnical Testing Journal, 2009, 32, 102033.	0.5	6
45	Influence of horizontally variable soil properties on nonlinear seismic site response and ground motion coherency. Earthquake Engineering and Structural Dynamics, 2022, 51, 704-722.	2.5	6
46	A Mesh-Free Approach for Multiscale Modeling in Continuumâ€“Granular Systems. International Journal of Computational Methods, 2020, 17, 2050006.	0.8	5
47	Dynamic Properties of Transparent Soil. , 2007, , 1.		4
48	Seismic centrifuge modelling of earth dams. Geomechanics and Geoengineering, 2010, 5, 247-257.	0.9	4
49	Characterization of Shear Wave Velocity and Its Anisotropy in Uniform Granular Materials. , 2014, , .		4
50	Camera Calibration Using Neural Network for Image-Based Soil Deformation Measurement Systems. Geotechnical Testing Journal, 2008, 31, 100729.	0.5	4
51	Evaluation of Compacted Silt Characteristics by Ultrasonic Pulse Velocity Testing. , 2010, , .		3
52	Special Issue on Experimental and Computational Geomechanics for Unsaturated Soils. International Journal of Geomechanics, 2016, 16, .	1.3	3
53	Assessment of concrete maturity and overturning mechanism of primary diaphragm walls in very soft clay during cold winter. KSCE Journal of Civil Engineering, 2016, 20, 1314-1322.	0.9	3
54	Packing void ratios of very dense ternary mixtures of similar ellipsoids. Granular Matter, 2020, 22, 1.	1.1	3

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55	Calibration of Soil Moisture Probes in Saline Conditions. , 2007, , .		2
56	Constitutive, Physical, and Numerical Modeling in Transportation Geotechnics. International Journal of Geomechanics, 2013, 13, 331-331.	1.3	2
57	Use of Geogrids to Enhance Stability of Slope in Bioreactor Landfills: A Conceptual Method. , 2009, , .		1
58	Effectiveness of Objective Functions in Soil Model Calibration through Numerical Optimization. , 2011, , .		1
59	Characterization of Crushed Rock-Concrete Interface Behavior through the Parallel Gradation Technique. , 2011, , .		1
60	Variation of Slurry Pipe Jacking Force in Coarse and Fine Soils. , 2016, , .		1
61	Small strain moduli of compacted silt by ultrasonic pulse velocity measurements. Marine Georesources and Geotechnology, 2020, 38, 1257-1264.	1.2	1
62	Calibration of Advanced Constitutive Model Using Optimization Techniques. Journal of Testing and Evaluation, 2020, 48, 2196-2212.	0.4	1
63	Modeling Resilient Modulus of Unbound Granular Materials under Repeated Loading. , 2009, , .		0
64	Finite Element Modeling of a Field-Scale Shored Mechanically Stabilized Earth Wall. , 2010, , .		0
65	Variability Analysis of Undrained Shear Strength for Reliability-Based Design. , 2011, , .		0
66	Correction Factors for an Analytical Method of Pile Foundation Response Subjected to Horizontal Dynamic Vibrations. , 2011, , .		0
67	Modeling Unbound Granular Materials under Complex Stress Paths. , 2011, , .		0
68	Influence of Geotechnical Dataset on the Range of Influence of Undrained Shear Strength. , 2011, , .		0
69	Evaluation of Pre-Consolidation Stress Determination Methods. , 2011, , .		0
70	Special Section on Advanced Modeling and Numerical Simulations in Geomechanics. International Journal of Geomechanics, 2011, 11, 153-153.	1.3	0
71	An Alternative Method for Soil Characterisation Using Pipe-Jacking Parameters and Spoil Characteristics. , 2018, , 224-231.		0
72	Assessment of Direct Tension Tests on Compacted Sand-Clay Mixtures. Journal of Materials in Civil Engineering, 2019, 31, 04019236.	1.3	0

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73	Investigation into mechanical behaviour of loess-wheat straw mixtures. Japanese Geotechnical Society Special Publication, 2019, 7, 418-423.	0.2	0
74	Evaluation of the Stiffness and Volumetric Behaviors of Medium Dense Sand under Principal Stress Rotations. Journal of Testing and Evaluation, 2010, 38, 319-323.	0.4	0
75	Strength variations due to re-liquefactionâ€™ indication from cyclic tests on undisturbed and remold samples of a liquefaction-recurring site. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	1.6	0