

Luis E Vallejo

List of Publications by Year in descending order

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88
papers

2,020
citations

304743

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243625

44
g-index

88
all docs

88
docs citations

88
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Porosity influence on the shear strength of granular material-clay mixtures. <i>Engineering Geology</i> , 2000, 58, 125-136.	6.3	271
2	Fractal analysis of the roughness and size distribution of granular materials. <i>Engineering Geology</i> , 1997, 48, 231-244.	6.3	188
3	Discrete Element Method Analysis of Railtrack Ballast Degradation during Cyclic Loading. <i>Granular Matter</i> , 2006, 8, 195-204.	2.2	187
4	Interpretation of the limits in shear strength in binary granular mixtures. <i>Canadian Geotechnical Journal</i> , 2001, 38, 1097-1104.	2.8	157
5	Discrete Element Method Evaluation of Granular Crushing Under Direct Shear Test Conditions. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 1295-1300.	3.0	91
6	Visualization of Crushing Evolution in Granular Materials under Compression Using DEM. <i>International Journal of Geomechanics</i> , 2006, 6, 195-200.	2.7	87
7	DEM analysis of crushing around driven piles in granular materials. <i>Geotechnique</i> , 2005, 55, 617-623.	4.0	79
8	Influence of pile shape and pile interaction on the crushable behavior of granular materials around driven piles: DEM analyses. <i>Granular Matter</i> , 2007, 9, 241-250.	2.2	69
9	DEM analysis of the crack propagation in brittle clays under uniaxial compression tests. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 1405-1415.	3.3	57
10	Fractal analysis of granular materials. <i>Geotechnique</i> , 1995, 45, 159-163.	4.0	53
11	Application of Weibull Statistics to the Tensile Strength of Rock Aggregates. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2006, 132, 786-790.	3.0	52
12	Collapse of Granular Columns With Fractal Particle Size Distribution: Implications for Understanding the Role of Small Particles in Granular Flows. <i>Geophysical Research Letters</i> , 2017, 44, 12,181.	4.0	48
13	Mechanics of coastal landslides and the influence of slope parameters. <i>Engineering Geology</i> , 1980, 16, 83-96.	6.3	44
14	Numerical analysis of the causes of face slab cracks in Gongboxia rockfill dam. <i>Engineering Geology</i> , 2014, 181, 224-232.	6.3	42
15	The influence of fissures in a stiff clay subjected to direct shear. <i>Geotechnique</i> , 1987, 37, 69-82.	4.0	36
16	Characterization of the angle of repose of binary granular materials. <i>Canadian Geotechnical Journal</i> , 2005, 42, 683-692.	2.8	35
17	ANALYSIS OF CRUSHING OF GRANULAR MATERIAL UNDER ISOTROPIC AND BIAXIAL STRESS CONDITIONS. <i>Soils and Foundations</i> , 2005, 45, 79-87.	0.7	34
18	Fractal analysis of the fabric changes in a consolidating clay. <i>Engineering Geology</i> , 1996, 43, 281-290.	6.3	31

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19	The brittle and ductile behavior of clay samples containing a crack under mixed mode loading. Theoretical and Applied Fracture Mechanics, 1988, 10, 73-78.	4.7	28
20	Degradation of a Granular Base under a Flexible Pavement: DEM Simulation. International Journal of Geomechanics, 2006, 6, 435-439.	2.7	26
21	The elastic moduli of clays with dispersed oversized particles. Engineering Geology, 2005, 78, 163-171.	6.3	25
22	An Extension of the Particulate Model of Stability Analysis for Mudflows. Soils and Foundations, 1989, 29, 1-13.	3.1	23
23	Shear Strength Evaluation of Clay-Rock Mixtures. , 2000, , 209.		22
24	Fissure Parameters in Stiff Clays under Compression. Journal of Geotechnical Engineering, 1989, 115, 1303-1317.	0.4	21
25	An explanation for mudflows. Geotechnique, 1979, 29, 351-354.	4.0	19
26	Modelling comminution of granular materials using a linear packing model and Markovian processes. Computers and Geotechnics, 2016, 80, 383-396.	4.7	17
27	Bluff response to wave action. Engineering Geology, 1988, 26, 1-16.	6.3	16
28	Strength Properties of Autoclaved Cellular Concrete with High Volume Fly Ash. Journal of Energy Engineering - ASCE, 1997, 123, 44-54.	1.9	16
29	Fractal analysis of the slake durability test. Canadian Geotechnical Journal, 1994, 31, 1003-1008.	2.8	15
30	Aggregation of clay in the hydrometer test. Canadian Geotechnical Journal, 1997, 34, 621-626.	2.8	15
31	Fractal analysis of temperature-induced cracking in clays and rocks. Geotechnique, 2009, 59, 283-286.	4.0	15
32	A new approach to the stability analysis of thawing slopes. Canadian Geotechnical Journal, 1980, 17, 607-612.	2.8	14
33	Shear Stresses and the Hydraulic Fracturing of Earth Dam Soils. Soils and Foundations, 1993, 33, 14-27.	3.1	14
34	A Network of Fractal Force Chains and Their Effect in Granular Materials under Compression. , 2005, , 67-80.		14
35	Fractal Approach to Measuring Roughness of Geomembranes. Journal of Geotechnical Engineering, 1995, 121, 442-446.	0.4	13
36	Fractal Assessment of the Surface Texture of Pavements. International Journal of Pavement Engineering, 2001, 2, 149-156.	4.4	12

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37	Fibre-reinforcement of granular materials: DEM visualisation and analysis. Geomechanics and Geoengineering, 2010, 5, 79-89.	1.8	11
38	The shear strength of granular materials containing dispersed oversized particles: DEM analysis. International Journal of Geotechnical Engineering, 2012, 6, 371-380.	2.0	9
39	Hollow cylinder apparatus for testing unbound granular materials of pavements. Road Materials and Pavement Design, 2012, 13, 455-479.	4.0	8
40	Effect of fractal particle size distribution on the mobility of dry granular flows. AIP Advances, 2021, 11, .	1.3	8
41	DETERMINATION OF THE SHEAR STRENGTH PARAMETERS ASSOCIATED WITH MUDFLOWS. Soils and Foundations, 2003, 43, 129-133.	0.7	7
42	Effect of Nondurable Material on Settlement of Embankments. Transportation Research Record, 2010, 2170, 84-89.	1.9	7
43	Laboratory Experiments on the Hydraulic Conductivity of Sands with Dispersed Rock Particles. Geotechnical and Geological Engineering, 2013, 31, 1405-1410.	1.7	7
44	Unconfined compressive strength of brittle material containing multiple cracks. International Journal of Geotechnical Engineering, 2013, 7, 318-321.	2.0	6
45	Fractal and laboratory analyses of the crushing and abrasion of granular materials. Geomechanics and Engineering, 2009, 1, 323-335.	0.9	6
46	Mechanics of the slaking of shales. Geomechanics and Engineering, 2011, 3, 219-231.	0.9	6
47	Mechanics of mudflow mobilization in low-angled clay slopes. Engineering Geology, 1980, 16, 63-70.	6.3	4
48	Properties of High Fly Ash Content Cellular Concrete. Journal of Energy Engineering - ASCE, 1994, 120, 35-48.	1.9	4
49	Fractal dimension of profiles and surfaces using fuzzy morphological coverings. Engineering Geology, 1997, 48, 245-253.	6.3	4
50	Fractal Fragmentation of Granular Materials under Compression. , 2009, , .		4
51	Investigation of Lateral Stress Relief Using Finite Elements and Fracture Mechanics: Case History Study of the Saxon Pit. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1277-1283.	3.0	4
52	Influence of Clay Content on Crack Evolution of Clay-Sand Mixture. Frontiers in Earth Science, 0, 10, .	1.8	4
53	DEM analysis of the effect of granular crushing on the bearing capacity of footings. International Journal of Geotechnical Engineering, 2010, 4, 351-359.	2.0	3
54	Shear Strength of Sand-Gravel Mixtures: Laboratory and Theoretical Analysis. , 2014, , .		3

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55	Experimental study of the hydro-mechanical behaviour of unsaturated argillaceous rocks. E3S Web of Conferences, 2016, 9, 14007.	0.5	3
56	The effectiveness of geosynthetic reinforcement, tamping, and stoneblowing of railtrack ballast beds under dynamic loading: DEM analysis. Geomechanics and Engineering, 2010, 2, 161-176.	0.9	3
57	Fractal evaluation of the level of alligator cracking in pavements. Geomechanics and Engineering, 2012, 4, 219-227.	0.9	3
58	Surge Wave Development in Debris Flows. Soils and Foundations, 1997, 37, 115-119.	3.1	3
59	Discussion of "Effect of Gravel on Hydraulic Conductivity of Compacted Soil Liners" by Thomas L. Shelley and David E. Daniel (January, 1993, Vol. 119, No. 1). Journal of Geotechnical Engineering, 1994, 120, 935-937.	0.4	2
60	Failure Analysis of an Instrumented Stiff Clay Slope. , 2010, , .		2
61	The influence of the fractal particle size distribution on the mobility of dry granular materials. EPJ Web of Conferences, 2017, 140, 03032.	0.3	2
62	Comparison of the Uniaxial Compressive Strength of the Belencito Claystone Under Stress Control and Suction Control Paths. Rock Mechanics and Rock Engineering, 2019, 52, 19-34.	5.4	2
63	Safety evaluation with observational data and numerical analysis of Langyashan reinforced concrete face rockfill dam. Bulletin of Engineering Geology and the Environment, 2020, 79, 3497-3515.	3.5	2
64	Discussion: An explanation for mudflows. Geotechnique, 1982, 32, 67-68.	4.0	1
65	Evaluation of test methods designed to obtain the undrained shear strength of muds. Marine Geotechnology, 1988, 7, 173-188.	0.2	1
66	Modes of Failure of Coastal Slopes as a Result of Wave Action. , 2002, , 664.		1
67	Stability and Impacts of Unsupported Vertical Cuts in Stiff Clay. , 2011, , .		1
68	Fragmentation due to Desiccation and Shallow Failures in Clay Slopes. , 2013, , .		1
69	Fractal Evaluation of the Evolution of the Void System in a Simulated Granular Material under Direct Shear. , 2016, , .		1
70	Fractal Analysis of the Cracking and Failure of Asphalt Pavements. , 2016, , .		1
71	Closure to "Fissure Parameters in Stiff Clays under Compression" by Luis E. Vallejo (September, 1989). Tj ETQq 1 0.784314 rg 0.4 0	0.4	0
72	Discussion: Modeling Lateral Sliding of Slope due to Liquefaction of Sand Layer. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1997, 123, 80-82.	3.0	0

#	ARTICLE	IF	CITATIONS
73	Chapter 4 Fault movement and its impact on ground deformations and engineering structures. Developments in Geotechnical Engineering, 1997, , 43-60.	0.1	0
74	The Formation and Effect of Wave Induced Notches on the Failure of Coastal Slopes. , 2008, , .		0
75	Fracture Mechanics Evaluation of Parameters Associated with Horizontal Hydrofracturing. , 2014, , .		0
76	Stability and Sustainability Analyses of the Retaining Walls Built by the Incas. , 2014, , .		0
77	Influence of Lateral Stress Release on the Stability of Stiff Clay Slopes. , 2014, , .		0
78	Visualization of the Fragmentation of a Weak Granular Material under Uniaxial Confined Compression. , 2014, , .		0
79	Fractal Analysis of Crack Evolution in Desiccating Clay and Some Engineering Applications. , 2016, , .		0
80	An Explanation for the Delayed Failures of Natural Slopes and Earth Dams. , 2017, , .		0
81	The Effect of Crushing of Unbound Granular Materials Forming Part of Flexible Pavement Systems. , 2017, , .		0
82	Analysis of the Fabric Changes in a Simulated Clay-Rock Mixture under Shear. , 2017, , .		0
83	Mechanical analysis of the dry stone walls built by the Incas. EPJ Web of Conferences, 2017, 140, 06012.	0.3	0
84	The Reaction of Embankment to Longwall Mining Subsidence. , 2021, , .		0
85	Determination of the Shear Strength Parameters Associated with Mudflows. Soils and Foundations, 2003, 43, 129-133.	3.1	0
86	Hydro-mechanical Behaviour of Unsaturated Argillaceous Rocks. Springer Series in Geomechanics and Geoengineering, 2017, , 3-13.	0.1	0
87	Fractal Analysis of the Progressive Failure of Shales and Stiff Clays Under Shear. Springer Series in Geomechanics and Geoengineering, 2017, , 257-263.	0.1	0
88	Effect of Longwall Mining on Pennsylvania I-70. , 0, , .		0