

# Luis E Vallejo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3628859/publications.pdf>

Version: 2024-02-01

88  
papers

2,020  
citations

304743

22  
h-index

243625

44  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1362  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Reaction of Embankment to Longwall Mining Subsidence. , 2021, , .		0
2	Effect of fractal particle size distribution on the mobility of dry granular flows. AIP Advances, 2021, 11, .	1.3	8
3	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
4	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
5	An Explanation for the Delayed Failures of Natural Slopes and Earth Dams. , 2017, , .		0
6	The Effect of Crushing of Unbound Granular Materials Forming Part of Flexible Pavement Systems. , 2017, , .		0
7	Collapse of Granular Columns With Fractal Particle Size Distribution: Implications for Understanding the Role of Small Particles in Granular Flows. Geophysical Research Letters, 2017, 44, 12,181.	4.0	48
8	Analysis of the Fabric Changes in a Simulated Clay-Rock Mixture under Shear. , 2017, , .		0
9	Mechanical analysis of the dry stone walls built by the Incas. EPJ Web of Conferences, 2017, 140, 06012.	0.3	0
10	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
11	Hydro-mechanical Behaviour of Unsaturated Argillaceous Rocks. Springer Series in Geomechanics and Geoengineering, 2017, , 3-13.	0.1	0
12	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
13	Experimental study of the hydro-mechanical behaviour of unsaturated argillaceous rocks. E3S Web of Conferences, 2016, 9, 14007.	0.5	3
14	Fractal Analysis of Crack Evolution in Desiccating Clay and Some Engineering Applications. , 2016, , .		0
15	Fractal Evaluation of the Evolution of the Void System in a Simulated Granular Material under Direct Shear. , 2016, , .		1
16	Modelling comminution of granular materials using a linear packing model and Markovian processes. Computers and Geotechnics, 2016, 80, 383-396.	4.7	17
17	Fractal Analysis of the Cracking and Failure of Asphalt Pavements. , 2016, , .		1
18	Fracture Mechanics Evaluation of Parameters Associated with Horizontal Hydrofracturing. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	Shear Strength of Sand-Gravel Mixtures: Laboratory and Theoretical Analysis. , 2014, , .		3
20	Stability and Sustainability Analyses of the Retaining Walls Built by the Incas. , 2014, , .		0
21	Influence of Lateral Stress Release on the Stability of Stiff Clay Slopes. , 2014, , .		0
22	Numerical analysis of the causes of face slab cracks in Gongboxia rockfill dam. Engineering Geology, 2014, 181, 224-232.	6.3	42
23	Visualization of the Fragmentation of a Weak Granular Material under Uniaxial Confined Compression. , 2014, , .		0
24	Laboratory Experiments on the Hydraulic Conductivity of Sands with Dispersed Rock Particles. Geotechnical and Geological Engineering, 2013, 31, 1405-1410.	1.7	7
25	Unconfined compressive strength of brittle material containing multiple cracks. International Journal of Geotechnical Engineering, 2013, 7, 318-321.	2.0	6
26	Fragmentation due to Desiccation and Shallow Failures in Clay Slopes. , 2013, , .		1
27	The shear strength of granular materials containing dispersed oversized particles: DEM analysis. International Journal of Geotechnical Engineering, 2012, 6, 371-380.	2.0	9
28	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
29	Hollow cylinder apparatus for testing unbound granular materials of pavements. Road Materials and Pavement Design, 2012, 13, 455-479.	4.0	8
30	Fractal evaluation of the level of alligator cracking in pavements. Geomechanics and Engineering, 2012, 4, 219-227.	0.9	3
31	Stability and Impacts of Unsupported Vertical Cuts in Stiff Clay. , 2011, , .		1
32	Mechanics of the slaking of shales. Geomechanics and Engineering, 2011, 3, 219-231.	0.9	6
33	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
34	Fibre-reinforcement of granular materials: DEM visualisation and analysis. Geomechanics and Geoengineering, 2010, 5, 79-89.	1.8	11
35	Effect of Nondurable Material on Settlement of Embankments. Transportation Research Record, 2010, 2170, 84-89.	1.9	7
36	Failure Analysis of an Instrumented Stiff Clay Slope. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
37	The effectiveness of geosynthetic reinforcement, tamping, and stoneblowing of railtrack ballast beds under dynamic loading: DEM analysis. <i>Geomechanics and Engineering</i> , 2010, 2, 161-176.	0.9	3
38	Fractal analysis of temperature-induced cracking in clays and rocks. <i>Geotechnique</i> , 2009, 59, 283-286.	4.0	15
39	Fractal Fragmentation of Granular Materials under Compression. , 2009, , .		4
40	Fractal and laboratory analyses of the crushing and abrasion of granular materials. <i>Geomechanics and Engineering</i> , 2009, 1, 323-335.	0.9	6
41	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
42	The Formation and Effect of Wave Induced Notches on the Failure of Coastal Slopes. , 2008, , .		0
43	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
44	Degradation of a Granular Base under a Flexible Pavement: DEM Simulation. <i>International Journal of Geomechanics</i> , 2006, 6, 435-439.	2.7	26
45	Visualization of Crushing Evolution in Granular Materials under Compression Using DEM. <i>International Journal of Geomechanics</i> , 2006, 6, 195-200.	2.7	87
46	Discrete Element Method Analysis of Railtrack Ballast Degradation during Cyclic Loading. <i>Granular Matter</i> , 2006, 8, 195-204.	2.2	187
47	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
48	The elastic moduli of clays with dispersed oversized particles. <i>Engineering Geology</i> , 2005, 78, 163-171.	6.3	25
49	ANALYSIS OF CRUSHING OF GRANULAR MATERIAL UNDER ISOTROPIC AND BIAxIAL STRESS CONDITIONS. <i>Soils and Foundations</i> , 2005, 45, 79-87.	0.7	34
50	DEM analysis of crushing around driven piles in granular materials. <i>Geotechnique</i> , 2005, 55, 617-623.	4.0	79
51	A Network of Fractal Force Chains and Their Effect in Granular Materials under Compression. , 2005, , 67-80.		14
52	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
53	Characterization of the angle of repose of binary granular materials. <i>Canadian Geotechnical Journal</i> , 2005, 42, 683-692.	2.8	35
54	DETERMINATION OF THE SHEAR STRENGTH PARAMETERS ASSOCIATED WITH MUDFLOWS. <i>Soils and Foundations</i> , 2003, 43, 129-133.	0.7	7

#	ARTICLE	IF	CITATIONS
55	Determination of the Shear Strength Parameters Associated with Mudflows. Soils and Foundations, 2003, 43, 129-133.	3.1	0
56	Modes of Failure of Coastal Slopes as a Result of Wave Action. , 2002, , 664.		1
57	Interpretation of the limits in shear strength in binary granular mixtures. Canadian Geotechnical Journal, 2001, 38, 1097-1104.	2.8	157
58	Fractal Assessment of the Surface Texture of Pavements. International Journal of Pavement Engineering, 2001, 2, 149-156.	4.4	12
59	Porosity influence on the shear strength of granular materialâ€“clay mixtures. Engineering Geology, 2000, 58, 125-136.	6.3	271
60	Shear Strength Evaluation of Clay-Rock Mixtures. , 2000, , 209.		22
61	Strength Properties of Autoclaved Cellular Concrete with High Volume Fly Ash. Journal of Energy Engineering - ASCE, 1997, 123, 44-54.	1.9	16
62	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
63	Chapter 4 Fault movement and its impact on ground deformations and engineering structures. Developments in Geotechnical Engineering, 1997, , 43-60.	0.1	0
64	Aggregation of clay in the hydrometer test. Canadian Geotechnical Journal, 1997, 34, 621-626.	2.8	15
65	Fractal dimension of profiles and surfaces using fuzzy morphological coverings. Engineering Geology, 1997, 48, 245-253.	6.3	4
66	Fractal analysis of the roughness and size distribution of granular materials. Engineering Geology, 1997, 48, 231-244.	6.3	188
67	Surge Wave Development in Debris Flows. Soils and Foundations, 1997, 37, 115-119.	3.1	3
68	Fractal analysis of the fabric changes in a consolidating clay. Engineering Geology, 1996, 43, 281-290.	6.3	31
69	Fractal analysis of granular materials. Geotechnique, 1995, 45, 159-163.	4.0	53
70	Fractal Approach to Measuring Roughness of Geomembranes. Journal of Geotechnical Engineering, 1995, 121, 442-446.	0.4	13
71	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
72	Fractal analysis of the slake durability test. Canadian Geotechnical Journal, 1994, 31, 1003-1008.	2.8	15

#	ARTICLE	IF	CITATIONS
73	Properties of High Fly Ash Content Cellular Concrete. Journal of Energy Engineering - ASCE, 1994, 120, 35-48.	1.9	4
74	Shear Stresses and the Hydraulic Fracturing of Earth Dam Soils. Soils and Foundations, 1993, 33, 14-27.	3.1	14
75	Closure to "Fissure Parameters in Stiff Clays under Compression" by Luis E. Vallejo (September, 1989), <i>TJ</i> ET O <sub>g</sub> 1 1 0.784314 rg	0.4	0
76	An Extension of the Particulate Model of Stability Analysis for Mudflows. Soils and Foundations, 1989, 29, 1-13.	3.1	23
77	Fissure Parameters in Stiff Clays under Compression. Journal of Geotechnical Engineering, 1989, 115, 1303-1317.	0.4	21
78	Bluff response to wave action. Engineering Geology, 1988, 26, 1-16.	6.3	16
79	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
80	Evaluation of test methods designed to obtain the undrained shear strength of muds. Marine Geotechnology, 1988, 7, 173-188.	0.2	1
81	The influence of fissures in a stiff clay subjected to direct shear. Geotechnique, 1987, 37, 69-82.	4.0	36
82	Discussion: An explanation for mudflows. Geotechnique, 1982, 32, 67-68.	4.0	1
83	Mechanics of mudflow mobilization in low-angled clay slopes. Engineering Geology, 1980, 16, 63-70.	6.3	4
84	Mechanics of coastal landslides and the influence of slope parameters. Engineering Geology, 1980, 16, 83-96.	6.3	44
85	A new approach to the stability analysis of thawing slopes. Canadian Geotechnical Journal, 1980, 17, 607-612.	2.8	14
86	An explanation for mudflows. Geotechnique, 1979, 29, 351-354.	4.0	19
87	Effect of Longwall Mining on Pennsylvania I-70. , 0, , .		0
88	Influence of Clay Content on Crack Evolution of Clay-Sand Mixture. Frontiers in Earth Science, 0, 10, .	1.8	4