

# Jose V Lemos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7815096/publications.pdf>

Version: 2024-02-01

63  
papers

2,698  
citations

304602

22  
h-index

189801

50  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational investigations on the combined shear-torsion-bending behavior of dry-joint masonry using DEM. Computational Particle Mechanics, 2023, 10, 249-260.	1.5	10
2	Discrete Element Bonded-Block Models for Detailed Analysis of Masonry. Infrastructures, 2022, 7, 31.	1.4	10
3	A Hybrid Particle/Finite Element Model with Surface Roughness for Stone Masonry Analysis. Applied Mechanics, 2022, 3, 608-627.	0.7	4
4	A Discrete Element Model for Masonry Vaults Strengthened with Externally Bonded Reinforcement. International Journal of Architectural Heritage, 2021, 15, 1959-1972.	1.7	19
5	Numerical modeling of the tension stiffening in reinforced concrete members via discontinuum models. Computational Particle Mechanics, 2021, 8, 423-436.	1.5	9
6	Vibration-based damage detection of a concrete arch dam. Engineering Structures, 2021, 235, 112032.	2.6	36
7	Integrated InSAR and GNSS Monitoring Subsystem for an Arch Dam and Reservoir Banks. Journal of Surveying Engineering, - ASCE, 2021, 147, .	1.0	5
8	O desenvolvimento da mecânica das rochas e perspectivas de evolução da investigação e dos domínios de aplicação. Geotecnia, 2021, , 481-508.	0.1	0
9	In-plane structural performance of dry-joint stone masonry Walls: A spatial and non-spatial stochastic discontinuum analysis. Engineering Structures, 2021, 242, 112620.	2.6	22
10	Seismic vulnerability assessment of masonry arch bridges. Structures, 2021, 33, 3311-3323.	1.7	13
11	Numerical procedures for the analysis of collapse mechanisms of masonry structures using discrete element modelling. Engineering Structures, 2021, 246, 113047.	2.6	21
12	Arch dam static and dynamic modelling with discrete elements. IOP Conference Series: Earth and Environmental Science, 2021, 861, 072085.	0.2	0
13	Seismic Performance of Historical Buildings Based on Discrete Element Method: An Adobe Church. Journal of Earthquake Engineering, 2020, 24, 1270-1289.	1.4	22
14	Simulation of the in-plane structural behavior of unreinforced masonry walls and buildings using DEM. Structures, 2020, 27, 2274-2287.	1.7	67
15	Tensile Fracture Mechanism of Masonry Wallettes Parallel to Bed Joints: A Stochastic Discontinuum Analysis. Modelling, 2020, 1, 78-93.	0.8	16
16	Investigation of the Structural Dynamic Behavior of the Frontinus Gate. Applied Sciences (Switzerland), 2020, 10, 5821.	1.3	13
17	Nonlinear dynamic response of stone masonry minarets under harmonic excitation. Bulletin of Earthquake Engineering, 2020, 18, 4813-4838.	2.3	12
18	Characterization of the dynamic behavior of a concrete arch dam by means of forced vibration tests and numerical models. Earthquake Engineering and Structural Dynamics, 2020, 49, 679-694.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Discontinuum analysis of the fracture mechanism in masonry prisms and wallettes via discrete element method. <i>Meccanica</i> , 2020, 55, 505-523.	1.2	38
20	A discrete approach for modelling backfill material in masonry arch bridges. <i>Computers and Structures</i> , 2019, 224, 106108.	2.4	50
21	Discrete Element Modeling of the Seismic Behavior of Masonry Construction. <i>Buildings</i> , 2019, 9, 43.	1.4	64
22	Safety Analysis of the Left Bank Excavation Slopes of Baihetan Arch Dam Foundation Using a Discrete Element Model. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 2597-2615.	2.6	23
23	Dynamic monitoring of a concrete arch dam during the first filling of the reservoir. <i>Engineering Structures</i> , 2018, 174, 548-560.	2.6	45
24	A detailed micro-modelling approach for the structural analysis of masonry assemblages. <i>Computers and Structures</i> , 2018, 206, 66-81.	2.4	91
25	Fatores de redução para fluência em geocomposto drenante. <i>Geotecnia</i> , 2018, , 51-64.	0.1	0
26	Aplicação de métodos numéricos na interpretação de resultados de medições de tensões em maciços rochosos. <i>Geotecnia</i> , 2018, , 113-140.	0.1	0
27	Installation and results from the first 6 months of operation of the dynamic monitoring system of Baixo Sabor arch dam. <i>Procedia Engineering</i> , 2017, 199, 2166-2171.	1.2	9
28	Contact representation in rigid block models of masonry. <i>International Journal of Masonry Research and Innovation</i> , 2017, 2, 321.	0.3	19
29	Discrete element modeling of a scaled masonry structure and its validation. <i>Engineering Structures</i> , 2016, 126, 224-236.	2.6	54
30	Modeling tensile crack propagation in concrete gravity dams via crack-path-field and strain injection techniques. <i>Engineering Fracture Mechanics</i> , 2016, 154, 288-310.	2.0	32
31	Seismic Analysis of Masonry Gravity Dams Using the Discrete Element Method: Implementation and Application. <i>Journal of Earthquake Engineering</i> , 2016, 20, 157-184.	1.4	9
32	Modelling the Dynamics of Masonry Structures with Discrete Elements. <i>Open Construction and Building Technology Journal</i> , 2016, 10, 210-219.	0.3	10
33	The Basis for Masonry Analysis with UDEC and 3DEC. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2016, , 61-89.	0.2	7
34	Discrete Element Particle Modelling of Stone Masonry. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2016, , 146-170.	0.2	2
35	Numerical Modeling of Historic Masonry Structures. , 2016, , 27-68.		1
36	3-D nonlinear behavior of an obelisk subjected to the Lorca May 11, 2011 strong motion record. <i>Engineering Failure Analysis</i> , 2015, 58, 212-228.	1.8	18

#	ARTICLE	IF	CITATIONS
37	Numerical Modeling of Historic Masonry Structures. Advances in Civil and Industrial Engineering Book Series, 2015, , 213-256.	0.2	41
38	A DEM based tool for the safety analysis of masonry gravity dams. Engineering Structures, 2014, 59, 248-260.	2.6	32
39	The effect of skew angle on the mechanical behaviour of masonry arches. Mechanics Research Communications, 2014, 61, 53-59.	1.0	61
40	Stress wave propagation test and numerical modelling of an underground complex. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 26-36.	2.6	15
41	Hydromechanical Analysis of Masonry Gravity Dams and their Foundations. Rock Mechanics and Rock Engineering, 2013, 46, 327-339.	2.6	16
42	A 3D generalized rigid particle contact model for rock fracture. Engineering Computations, 2013, 30, 277-300.	0.7	12
43	Masonry Dams: Analysis of the Historical Profiles of Sazilly, Delocre, and Rankine. International Journal of Architectural Heritage, 2012, 6, 19-45.	1.7	5
44	Analysis of foundation sliding of an arch dam considering the hydromechanical behavior. Frontiers of Structural and Civil Engineering, 2012, 6, 35-43.	1.2	12
45	3D stability analysis of gravity dams on sloped rock foundations using the limit equilibrium method. Computers and Geotechnics, 2012, 44, 147-156.	2.3	17
46	Numerical modelling of borehole water-inflow tests in the foundation of the Alqueva arch dam. Canadian Geotechnical Journal, 2011, 48, 72-88.	1.4	11
47	Assessment of the Seismic Capacity of Stone Masonry Walls with Block Models. Computational Methods in Applied Sciences (Springer), 2011, , 221-235.	0.1	9
48	Micromechanical Modelling of Stress Waves in Rock and Rock Fractures. Rock Mechanics and Rock Engineering, 2010, 43, 741-761.	2.6	45
49	Influence of aggregate deformation and contact behaviour on discrete particle modelling of fracture of concrete. Engineering Fracture Mechanics, 2008, 75, 1569-1586.	2.0	43
50	Block modelling of rock masses. European Journal of Environmental and Civil Engineering, 2008, 12, 915-949.	1.0	13
51	Discrete Element Modeling of Masonry Structures. International Journal of Architectural Heritage, 2007, 1, 190-213.	1.7	404
52	On the dynamics of rocking motion of single rigid block structures. Earthquake Engineering and Structural Dynamics, 2007, 36, 2383-2399.	2.5	160
53	Hybrid discrete element/finite element method for fracture analysis. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4579-4593.	3.4	86
54	A generalized rigid particle contact model for fracture analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2005, 29, 269-285.	1.7	23

#	ARTICLE	IF	CITATIONS
55	Numerical study of the seismic behaviour of a part of the Parthenon Pronaos. Earthquake Engineering and Structural Dynamics, 2003, 32, 2063-2084.	2.5	154
56	Numerical prediction of the earthquake response of classical columns using the distinct element method. Earthquake Engineering and Structural Dynamics, 2002, 31, 1699-1717.	2.5	167
57	Procedure for contact detection in discrete element analysis. Advances in Engineering Software, 2001, 32, 409-415.	1.8	38
58	Seismic Behavior of Blocky Masonry Structures. Earthquake Spectra, 2000, 16, 337-365.	1.6	74
59	Formulation of a three-dimensional distinct element model—Part II. Mechanical calculations for motion and interaction of a system composed of many polyhedral blocks. International Journal of Rock Mechanics and Mining Sciences, 1988, 25, 117-125.	0.3	455
60	Simulation of Shake Table Tests on Out-Of-Plane Masonry Buildings. Part (V): Discrete Element Approach. International Journal of Architectural Heritage, 0, , 1-8.	1.7	21
61	Back-analysis of the Collapse of a Tetrastyle Canopy during the April 25, 2015 Nepal Earthquake. International Journal of Architectural Heritage, 0, , 1-13.	1.7	1
62	Seismic Vulnerability Assessment of a Stone Arch Using Discrete Elements. International Journal of Architectural Heritage, 0, , 1-15.	1.7	3
63	Modeling of Historical Masonry with Discrete Elements. , 0, , 375-392.		1