Luca Lenti

List of Publications by Year
in descending order

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46 papers	879 citations	471509 17 h-index	501196 28 g-index
49 all docs	49 docs citations	49 times ranked	912 citing authors

#	Article	IF	Citations
1	Effect of Active Plastic Fine Fraction on Undrained Behavior of Binary Granular Mixtures. International Journal of Geomechanics, 2022, 22, .	2.7	10
2	Identifying the influence of a large alluvial valley on train-induced vibration propagation in Rome by an integrated approach. Engineering Geology, 2022, 297, 106499.	6.3	1
3	Liquefaction assessment of silty sands: Experimental characterization and numerical calibration. Soil Dynamics and Earthquake Engineering, 2022, 159, 107349.	3.8	3
4	Microseismic monitoring to assess rock mass damaging through a novel damping ratio-based approach. International Journal of Rock Mechanics and Minings Sciences, 2021, 146, 104883.	5.8	7
5	Seismic microzoning map: approaches, results and applications after the 2016â€“2017 Central Italy seismic sequence. Bulletin of Earthquake Engineering, 2020, 18, 5595-5629.	4.1	29
6	Seismic monitoring system for landslide hazard assessment and risk management at the drainage plant of the Peschiera Springs (Central Italy). Engineering Geology, 2020, 277, 105787.	6.3	10
7	Influence of the variability of soil profile properties on weak and strong seismic response. Soil Dynamics and Earthquake Engineering, 2020, 135, 106200.	3.8	7
8	The effect of isotropic preloading on static liquefaction of sandy soils. Lecture Notes in Civil Engineering, 2020, , 971-976.	0.4	0
9	Nonlinear Numerical Simulation of the Soil Seismic Response to the 2012 MwÂ5.9 Emilia Earthquake Considering the Variability of the Water Table Position. Bulletin of the Seismological Society of America, 2019, 109, 505-524.	2.3	3
10	Surface wave quantification in a highly heterogeneous alluvial basin: Case study of the Fosso di Vallerano valley, Rome, Italy. Soil Dynamics and Earthquake Engineering, 2019, 120, 292-300.	3.8	19
11	Composite mechanism of the BÃ¼yÃ¼kÃ§ekmece (Turkey) landslide as conditioning factor for earthquake-induced mobility. Geomorphology, 2018, 308, 64-77.	2.6	12
12	Extended Iwan-Iai (3DXii) constitutive model for 1-directional 3-component seismic waves in liquefiable soils: applicationto the Kushiro site (Japan). Geophysical Journal International, 2018, 215, 252-266.	2.4	4
13	Comprehensive analysis of the local seismic response in the complex BÃ¼yÃ¼kÃ§ekmece landslide area (Turkey) by engineering-geological and numerical modelling. Engineering Geology, 2017, 218, 90-106.	6.3	19
14	Vibrations in soils: a spectral prediction method. Procedia Engineering, 2017, 199, 2675-2680.	1.2	3
15	Nanoseismic monitoring of gravity-induced slope instabilities for the risk management of an aqueduct infrastructure in Central Apennines (Italy). Natural Hazards, 2017, 86, 345-362.	3.4	14
16	Considering seismic coefficient distributions within slopes to calculate landslide reactivation probability. Bulletin of Engineering Geology and the Environment, 2017, 76, 1353-1370.	3.5	8
17	A Characteristic-Period Based Approach for Evaluating Earthquake-Induced Displacements of the Large BÃ¼yÃ¼kÃ§ekmece Landslide (Turkey). , 2017, , 59-66.		0
18	Ground-motion amplification at the Colle di Roio ridge, central Italy: a combined effect of stratigraphy and topography. Geophysical Journal International, 2016, 206, 1-18.	2.4	39

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19	Near-surface geophysical methods for investigating the Buyukcekmece landslide in Istanbul, Turkey. Journal of Applied Geophysics, 2016, 134, 23-35.	2.1	32
20	Seismicâ€Wave Amplification in 3D Alluvial Basins: 3D/1D Amplification Ratios from Fast Multipole BEM Simulations. Bulletin of the Seismological Society of America, 2016, 106, 1267-1281.	2.3	31
21	Application of a characteristic periods-based (CPB) approach to estimate earthquake-induced displacements of landslides through dynamic numerical modelling. Geophysical Journal International, 2016, 206, 85-102.	2.4	14
22	Recorded displacements in a landslide slope due to regional and teleseismic earthquakes. Geophysical Journal International, 2015, 201, 1335-1345.	2.4	11
23	Influence of Lateral Heterogeneities on Strongâ€Motion Shear Strains: Simulations in the Historical Center of Rome (Italy). Bulletin of the Seismological Society of America, 2015, 105, 2604-2624.	2.3	16
24	Unconventional pseudostatic stability analysis of the Diezma landslide (Granada, Spain) based on a high-resolution engineering-geological model. Engineering Geology, 2015, 184, 81-95.	6.3	27
25	Soil Liquefaction During the Emilia, 2012 Seismic Sequence: Investigation and Analysis. , 2015, , 1107-1110.		6
26	Diezma Landslide (Southern Spain): Geological Model and Seismic Response. , 2015, , 1163-1167.		1
27	The High Damaging Mw 5.1 Lorca 2011 Earthquake: Possible Role of Local Seismic Amplification. , 2015, , 1127-1131.		0
28	Experimental and Numerical Investigations of Nonlinearity in Soils Using Advanced Laboratory-Scaled Models (ENINALS Project): From a Site-Test to a Centrifuge Model. Geotechnical, Geological and Earthquake Engineering, 2015, , 563-578.	0.2	0
29	A Parametric Numerical Study of the Interaction between Seismic Waves and Landslides for the Evaluation of the Susceptibility to Seismically Induced Displacements. Bulletin of the Seismological Society of America, 2013, 103, 33-56.	2.3	32
30	Modeling the effects of eruptive and seismic activities on flank instability at Mount Etna, Italy. Journal of Geophysical Research: Solid Earth, 2013, 118, 5252-5273.	3.4	17
31	Strong Ground Motion in the 2011 Tohoku Earthquake: A One-Directional Three-Component Modeling. Bulletin of the Seismological Society of America, 2013, 103, 1394-1410.	2.3	14
32	Modelling strong seismic ground motion: three-dimensional loading path versus wavefield polarization. Geophysical Journal International, 2012, 190, 1607-1624.	2.4	23
33	Microseismicity within a karstified rock mass due to cracks and collapses as a tool for risk management. Natural Hazards, 2012, 64, 359-379.	3.4	22
34	The role of near-field interaction between seismic waves and slope on the triggering of a rockslide at Lorca (SE Spain). Natural Hazards and Earth System Sciences, 2012, 12, 3631-3643.	3.6	20
35	The interaction of seismic waves with step-like slopes and its influence on landslide movements. Engineering Geology, 2012, 126, 19-36.	6.3	72
36	Widespread landslides induced by the Mw 5.1 earthquake of 11 May 2011 in Lorca, SE Spain. Engineering Geology, 2012, 137-138, 40-52.	6.3	69

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37	Earthquake triggering of landslides in highly jointed rock masses: Reconstruction of the 1783 Scilla rock avalanche (Italy). Geomorphology, 2011, 129, 294-308.	2.6	57
38	Evidences of landslide earthquake triggering due to self-excitation process. International Journal of Earth Sciences, 2011, 100, 861-879.	1.8	29
39	A simple multiâ€dirˆectional absorbing layer method to simulate elastic wave propagation in unbounded domains. International Journal for Numerical Methods in Engineering, 2011, 85, 1543-1563.	2.8	57
40	New procedure for deriving multifrequential dynamic equivalent signals (LEMA_DES): a test-study based on Italian accelerometric records. Bulletin of Earthquake Engineering, 2010, 8, 813-846.	4.1	11
41	A simple numerical absorbing layer method in elastodynamics. Comptes Rendus - Mecanique, 2010, 338, 24-32.	2.1	13
42	Evidence of Two-Dimensional Amplification Effects in an Alluvial Valley (Valnerina, Italy) from Velocimetric Records and Numerical Models. Bulletin of the Seismological Society of America, 2009, 99, 1612-1635.	2.3	21
43	Nonlinear Viscoelastic Wave Propagation: An Extension of Nearly Constant Attenuation Models. Journal of Engineering Mechanics - ASCE, 2009, 135, 1305-1314.	2.9	35
44	Selfâ€excitation process due to local seismic amplification responsible for the reactivation of the Salcito landslide (Italy) on 31 October 2002. Journal of Geophysical Research, 2008, 113, .	3.3	57
45	Analysis of earthquake - induced strain effects in a recently urbanized alluvial valley (Rome). Rendiconti Online Societa Geologica Italiana, 0, 41, 354-357.	0.3	1
46	Experiment of an innovative nanoseismic monitoring applied to gravity-induced slope instabilities in a karstified rock mass. Rendiconti Online Societa Geologica Italiana, 0, 35, 132-135.	0.3	0