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	The interaction of seismic waves with step-like slopes and its influence on landslide movements. Engineering Geology, 2012, 126, 19-36.	6.3	72
2	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
3	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
4	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
5	A simple multiâ€directional 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
6	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
7	Nonlinear Viscoelastic Wave Propagation: An Extension of Nearly Constant Attenuation Models. Journal of Engineering Mechanics - ASCE, 2009, 135, 1305-1314.	2.9	35
8	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
9	Near-surface geophysical methods for investigating the Buyukcekmece landslide in Istanbul, Turkey. Journal of Applied Geophysics, 2016, 134, 23-35.	2.1	32
10	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
11	Evidences of landslide earthquake triggering due to self-excitation process. International Journal of Earth Sciences, 2011, 100, 861-879.	1.8	29
12	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
13	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
14	Modelling strong seismic ground motion: three-dimensional loading path versus wavefield polarization. Geophysical Journal International, 2012, 190, 1607-1624.	2.4	23
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	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
25	A simple numerical absorbing layer method in elastodynamics. Comptes Rendus - Mecanique, 2010, 338, 24-32.	2.1	13
26	Composite mechanism of the BÃ¼yÃ¼kÃ§ekmece (Turkey) landslide as conditioning factor for earthquake-induced mobility. Geomorphology, 2018, 308, 64-77.	2.6	12
27	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
28	Recorded displacements in a landslide slope due to regional and teleseismic earthquakes. Geophysical Journal International, 2015, 201, 1335-1345.	2.4	11
29	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
30	Effect of Active Plastic Fine Fraction on Undrained Behavior of Binary Granular Mixtures. International Journal of Geomechanics, 2022, 22, .	2.7	10
31	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
32	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
33	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
34	Soil Liquefaction During the Emilia, 2012 Seismic Sequence: Investigation and Analysis. , 2015, , 1107-1110.		6
35	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
36	Vibrations in soils: a spectral prediction method. Procedia Engineering, 2017, 199, 2675-2680.	1.2	3

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37	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
38	Liquefaction assessment of silty sands: Experimental characterization and numerical calibration. Soil Dynamics and Earthquake Engineering, 2022, 159, 107349.	3.8	3
39	Diezma Landslide (Southern Spain): Geological Model and Seismic Response. , 2015, , 1163-1167.		1
40	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
41	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
42	The High Damaging Mw 5.1 Lorca 2011 Earthquake: Possible Role of Local Seismic Amplification. , 2015, , 1127-1131.		0
43	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
44	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
45	A Characteristic-Period Based Approach for Evaluating Earthquake-Induced Displacements of the Large BÃ¼yÃ¼kÃ§ekmece Landslide (Turkey). , 2017, , 59-66.		0
46	The effect of isotropic preloading on static liquefaction of sandy soils. Lecture Notes in Civil Engineering, 2020, , 971-976.	0.4	0