

# Arianna Pesci

## List of Publications by Citations

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34  
papers

1,106  
citations

18  
h-index

33  
g-index

35  
ext. papers

1,223  
ext. citations

3.9  
avg, IF

4.21  
L-index

#	Paper	IF	Citations
34	Global Positioning Systems and digital photogrammetry for the monitoring of mass movements: application to the Ca' di Malta landslide (northern Apennines, Italy). <i>Engineering Geology</i> , <b>2003</b> , 68, 103-121	6.6	96
33	Discrimination between marls and limestones using intensity data from terrestrial laser scanner. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2009</b> , 64, 522-528	11.8	91
32	Surface movements in Bologna (Po Plain Italy) detected by multitemporal DInSAR. <i>Remote Sensing of Environment</i> , <b>2007</b> , 110, 304-316	13.2	84
31	Laser scanning the Garisenda and Asinelli towers in Bologna (Italy): Detailed deformation patterns of two ancient leaning buildings. <i>Journal of Cultural Heritage</i> , <b>2011</b> , 12, 117-127	2.9	72
30	Characterization of landslide ground surface kinematics from terrestrial laser scanning and strain field computation. <i>Geomorphology</i> , <b>2008</b> , 97, 424-437	4.3	66
29	GPS-based monitoring of land subsidence in the Po Plain (Northern Italy). <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 288, 204-212	5.3	62
28	Insights into present-day crustal motion in the central Mediterranean area from GPS surveys. <i>Geophysical Journal International</i> , <b>2001</b> , 146, 98-110	2.6	62
27	Terrestrial Laser Scanner Resolution: Numerical Simulations and Experiments on Spatial Sampling Optimization. <i>Remote Sensing</i> , <b>2011</b> , 3, 167-184	5	61
26	A laser scanning-based method for fast estimation of seismic-induced building deformations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2013</b> , 79, 185-198	11.8	57
25	Grid_strain and grid_strain3: Software packages for strain field computation in 2D and 3D environments. <i>Computers and Geosciences</i> , <b>2008</b> , 34, 1142-1153	4.5	56
24	Liquefaction phenomena associated with the Emilia earthquake sequence of May-June 2012 (Northern Italy). <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 935-947	3.9	49
23	Modeling coseismic displacements resulting from SAR interferometry and GPS measurements during the 1997 Umbria-Marche seismic sequence. <i>Journal of Seismology</i> , <b>2000</b> , 4, 479-499	1.5	44
22	Laser scanning and digital imaging for the investigation of an ancient building: Palazzo d'Accursio study case (Bologna, Italy). <i>Journal of Cultural Heritage</i> , <b>2012</b> , 13, 215-220	2.9	39
21	Modelling coseismic displacements during the 1997 Umbria-Marche earthquake (central Italy). <i>Geophysical Journal International</i> , <b>1999</b> , 139, 283-295	2.6	32
20	Integration of ground-based laser scanner and aerial digital photogrammetry for topographic modelling of Vesuvio volcano. <i>Journal of Volcanology and Geothermal Research</i> , <b>2007</b> , 162, 123-138	2.8	29
19	Geometric characterization of a cylinder-shaped structure from laser scanner data: Development of an analysis tool and its use on a leaning bell tower. <i>Journal of Cultural Heritage</i> , <b>2013</b> , 14, 411-423	2.9	26
18	Morphological Analysis for Architectural Applications: Comparison between Laser Scanning and Structure-from-Motion Photogrammetry. <i>Journal of Surveying Engineering, - ASCE</i> , <b>2016</b> , 142, 04016004	1.3	25

17	Multitemporal laser scanner-based observation of the Mt. Vesuvius crater: Characterization of overall geometry and recognition of landslide events. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2011</b> , 66, 327-336	11.8	24
16	High resolution topographic model of Panarea Island by fusion of photogrammetric, lidar and bathymetric digital terrain models. <i>Photogrammetric Record</i> , <b>2010</b> , 25, 382-401	1.7	18
15	Remote Sensing and Geodetic Measurements for Volcanic Slope Monitoring: Surface Variations Measured at Northern Flank of La Fossa Cone (Vulcano Island, Italy). <i>Remote Sensing</i> , <b>2013</b> , 5, 2238-2256 <sup>5</sup>		16
14	Improving strain rate estimation from velocity data of non-permanent GPS stations: the Central Apennine study case (Italy). <i>GPS Solutions</i> , <b>2009</b> , 13, 249-261	4.4	15
13	The first Italian blast-induced liquefaction test (Mirabello, Emilia-Romagna, Italy): description of the experiment and preliminary results. <i>Annals of Geophysics</i> , <b>2017</b> , 60,	1.1	14
12	Deformation of Ancient Buildings inferred by Terrestrial Laser Scanning methodology: the Cantalovo church case study (Northern Italy)*. <i>Archaeometry</i> , <b>2014</b> , 56, 703-716	1.6	13
11	Blast-induced liquefaction in silty sands for full-scale testing of ground improvement methods: Insights from a multidisciplinary study. <i>Engineering Geology</i> , <b>2020</b> , 265, 105437	6	13
10	Technologies and new approaches used by the INGV EMERGEO Working Group for real-time data sourcing and processing during the Emilia Romagna (northern Italy) 2012 earthquake sequence. <i>Annals of Geophysics</i> , <b>2012</b> , 55,	1.1	12
9	Multisensor surveys of tall historical buildings in high seismic hazard areas before and during a seismic sequence. <i>Journal of Cultural Heritage</i> , <b>2015</b> , 16, 255-266	2.9	9
8	Characterization of soil deformation due to blast-induced liquefaction by UAV-based photogrammetry and terrestrial laser scanning. <i>International Journal of Remote Sensing</i> , <b>2018</b> , 39, 8317-8336 <sup>3,1</sup>		5
7	SURMODERR: A MATLAB toolbox for estimation of velocity uncertainties of a non-permanent GPS station. <i>Computers and Geosciences</i> , <b>2010</b> , 36, 1033-1041	4.5	5
6	Strategy for the detection of vertical movements in historical environments from fast high-precision GPS measurements. <i>Journal of Geophysics and Engineering</i> , <b>2012</b> , 9, 230-240	1.3	4
5	Strain rate computation in Northern Victoria Land (Antarctica) from episodic GPS surveys. <i>Geophysical Journal International</i> , <b>2012</b> , 189, 851-862	2.6	3
4	Evaluation of the temperature pattern of a complex body from thermal imaging and 3D information: A method and its MATLAB implementation. <i>Infrared Physics and Technology</i> , <b>2019</b> , 96, 228-237 <sup>2,7</sup>		2
3	Resolution and Precision of Fast Long-Range Terrestrial Photogrammetric Surveying Aimed at Detecting Slope Changes. <i>Journal of Surveying Engineering, - ASCE</i> , <b>2020</b> , 146, 04020017	1.3	1
2	Remote Sensing of Induced Liquefaction: TLS and SfM for a Full-Scale Blast Test. <i>Journal of Surveying Engineering, - ASCE</i> , <b>2022</b> , 148, 04021026	1.3	1
1	The role of geoenvironmental sciences in Cultural Heritage preservation: the case of 1000 year old leaning bell tower of Caorle (Venice). <i>Journal of Cultural Heritage</i> , <b>2019</b> , 39, 270-277	2.9	0