Lorenzo Solari

List of Publications by Year
in descending order

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56 papers	1,902 citations	172457 29 h-index	265206 42 g-index
62 all docs	62 docs citations	62 times ranked	1737 citing authors

#	Article	IF	Citations
1	Continuous, semi-automatic monitoring of ground deformation using Sentinel-1 satellites. Scientific Reports, 2018, 8, 7253.	3.3	195
2	A Methodology to Detect and Update Active Deformation Areas Based on Sentinel-1 SAR Images. Remote Sensing, 2017, 9, 1002.	4.0	102
3	Review of Satellite Interferometry for Landslide Detection in Italy. Remote Sensing, 2020, 12, 1351.	4.0	90
4	The Evolution of Wide-Area DInSAR: From Regional and National Services to the European Ground Motion Service. Remote Sensing, 2020, 12, 2043.	4.0	89
5	PSInSAR Analysis in the Pisa Urban Area (Italy): A Case Study of Subsidence Related to Stratigraphical Factors and Urbanization. Remote Sensing, 2016, 8, 120.	4.0	81
6	Mapping Vulnerable Urban Areas Affected by Slow-Moving Landslides Using Sentinel-1 InSAR Data. Remote Sensing, 2017, 9, 876.	4.0	76
7	Insights into lateral marsh retreat mechanism through localized field measurements. Water Resources Research, 2016, 52, 1446-1464.	4.2	63
8	Tracking morphological changes and slope instability using spaceborne and ground-based SAR data. Geomorphology, 2018, 300, 95-112.	2.6	58
9	The contribution of satellite SAR-derived displacement measurements in landslide risk management practices. Natural Hazards, 2017, 86, 327-351.	3.4	57
10	From ERS 1/2 to Sentinel-1: Subsidence Monitoring in Italy in the Last Two Decades. Frontiers in Earth Science, 2018, 6, .	1.8	55
11	Persistent Scatterers continuous streaming for landslide monitoring and mapping: the case of the Tuscany region (Italy). Landslides, 2019, 16, 2033-2044.	5.4	55
12	A Sentinel-1 based hot-spot analysis: landslide mapping in north-western Italy. International Journal of Remote Sensing, 2019, 40, 7898-7921.	2.9	54
13	The Calatabiano landslide (southern Italy): preliminary GB-InSAR monitoring data and remote 3D mapping. Landslides, 2017, 14, 685-696.	5.4	50
14	Semi-Automatic Identification and Pre-Screening of Geologicalâ€“Geotechnical Deformational Processes Using Persistent Scatterer Interferometry Datasets. Remote Sensing, 2019, 11, 1675.	4.0	49
15	Lava delta deformation as a proxy for submarine slope instability. Earth and Planetary Science Letters, 2018, 488, 46-58.	4.4	44
16	Rockfall forecasting and risk management along a major transportation corridor in the Alps through ground-based radar interferometry. Landslides, 2019, 16, 1425-1435.	5.4	44
17	Modeling the two- and three-dimensional displacement field in Lorca, Spain, subsidence and the global implications. Scientific Reports, 2018, 8, 14782.	3.3	42
18	Monitoring Ground Instabilities Using SAR Satellite Data: A Practical Approach. ISPRS International Journal of Geo-Information, 2019, 8, 307.	2.9	42

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19	Satellite radar data for back-analyzing a landslide event: the Ponzano (Central Italy) case study. Landslides, 2018, 15, 773-782.	5.4	41
20	From Picture to Movie: Twenty Years of Ground Deformation Recording Over Tuscany Region (Italy) With Satellite InSAR. Frontiers in Earth Science, 2018, 6, .	1.8	40
21	Satellite interferometric data for landslide intensity evaluation in mountainous regions. International Journal of Applied Earth Observation and Geoinformation, 2020, 87, 102028.	2.8	40
22	Spatiotemporal analysis and interpretation of 1993â€“2013 ground deformation at Campi Flegrei, Italy, observed by advanced DInSAR. Geophysical Research Letters, 2014, 41, 6101-6108.	4.0	37
23	The Canary Islands hot spot: New insights from 3D coupled geophysicalâ€“petrological modelling of the lithosphere and uppermost mantle. Earth and Planetary Science Letters, 2015, 409, 71-88.	4.4	37
24	Vulnerability Assessment of Buildings due to Land Subsidence Using InSAR Data in the Ancient Historical City of Pistoia (Italy). Sensors, 2020, 20, 2749.	3.8	37
25	Combined Use of C- and X-Band SAR Data for Subsidence Monitoring in an Urban Area. Geosciences (Switzerland), 2017, 7, 21.	2.2	36
26	Fast detection of ground motions on vulnerable elements using Sentinel-1 InSAR data. Geomatics, Natural Hazards and Risk, 2018, 9, 152-174.	4.3	34
27	Landslide-Induced Damage Probability Estimation Coupling InSAR and Field Survey Data by Fragility Curves. Remote Sensing, 2019, 11, 1486.	4.0	34
28	Ground Subsidence Susceptibility (GSS) Mapping in Grosseto Plain (Tuscany, Italy) Based on Satellite InSAR Data Using Frequency Ratio and Fuzzy Logic. Remote Sensing, 2019, 11, 2015.	4.0	33
29	Evaluation of subsidence induced by long-lasting buildings load using InSAR technique and geotechnical data: The case study of a Freight Terminal (Tuscany, Italy). International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101925.	2.8	32
30	Badland susceptibility assessment in Volterra municipality (Tuscany, Italy) by means of GIS and statistical analysis. Environmental Earth Sciences, 2016, 75, 1.	2.7	26
31	A-DInSAR Monitoring of Landslide and Subsidence Activity: A Case of Urban Damage in Arcos de la Frontera, Spain. Remote Sensing, 2017, 9, 787.	4.0	24
32	A GIS-Based Procedure for Landslide Intensity Evaluation and Specific risk Analysis Supported by Persistent Scatterers Interferometry (PSI). Remote Sensing, 2017, 9, 1093.	4.0	22
33	Satellite Data to Improve the Knowledge of Geohazards in World Heritage Sites. Remote Sensing, 2018, 10, 992.	4.0	21
34	ADAtools: Automatic Detection and Classification of Active Deformation Areas from PSI Displacement Maps. ISPRS International Journal of Geo-Information, 2020, 9, 584.	2.9	19
35	A Sentinel-1-based clustering analysis for geo-hazards mitigation at regional scale: a case study in Central Italy. Geomatics, Natural Hazards and Risk, 2019, 10, 2257-2275.	4.3	18
36	How Does Iron Storage Protein Ferritin Interact with Plutonium (and Thorium)?. Chemistry - A European Journal, 2021, 27, 2393-2401.	3.3	13

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37	Principal component analysis of MSBAS DInSAR time series from Campi Flegrei, Italy. Journal of Volcanology and Geothermal Research, 2017, 344, 139-153.	2.1	12
38	Geotechnics for rockfall assessment in the volcanic island of Gran Canaria (Canary Islands, Spain). Journal of Maps, 2020, 16, 605-613.	2.0	12
39	European Copernicus Services to Inform on Sea-Level Rise Adaptation: Current Status and Perspectives. Frontiers in Marine Science, 2021, 8, .	2.5	11
40	Suitability Assessment of X-Band Satellite SAR Data for Geotechnical Monitoring of Site Scale Slow Moving Landslides. Remote Sensing, 2018, 10, 936.	4.0	10
41	Multi-Temporal Satellite Interferometry for Fast-Motion Detection: An Application to Salt Solution Mining. Remote Sensing, 2020, 12, 3919.	4.0	9
42	Integration of Satellite Interferometric Data in Civil Protection Strategies for Landslide Studies at a Regional Scale. Remote Sensing, 2021, 13, 1881.	4.0	9
43	Joint Terrestrial and Aerial Measurements to Study Ground Deformation: Application to the Sciara Del Fuoco at the Stromboli Volcano (Sicily). Remote Sensing, 2016, 8, 463.	4.0	8
44	Numerical modelling of land subsidence related to groundwater withdrawal in the Firenze-Prato-Pistoia basin (central Italy). Hydrogeology Journal, 2021, 29, 629-649.	2.1	8
45	A New Set of Tools for the Generation of InSAR Visibility Maps over Wide Areas. Geosciences (Switzerland), 2021, 11, 229.	2.2	7
46	Sentinel-1-based monitoring services at regional scale in Italy: State of the art and main findings. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102448.	2.8	6
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55	Sentinel-1 PSI Data for the Evaluation of Landslide Geohazard and Impact. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 447-455.	0.3	0
56	From Satellite Images to Field Survey: A Complete Scheme of Landslide InSAR Monitoring. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 411-418.	0.3	0