Federico Raspini

List of Publications by Year in descending order

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51 papers	2,690 citations	147801 31 h-index	233421 45 g-index
52 all docs	52 docs citations	52 times ranked	2166 citing authors

#	Article	IF	Citations
1	The Maoxian landslide as seen from space: detecting precursors of failure with Sentinel-1 data. Landslides, 2018, 15, 123-133.	5.4	282
2	Persistent Scatterer Interferometry (PSI) Technique for Landslide Characterization and Monitoring. Remote Sensing, 2013, 5, 1045-1065.	4.0	233
3	Spaceborne, UAV and ground-based remote sensing techniques for landslide mapping, monitoring and early warning. Geoenvironmental Disasters, 2017, 4, .	3.6	204
4	Continuous, semi-automatic monitoring of ground deformation using Sentinel-1 satellites. Scientific Reports, 2018, 8, 7253.	3.3	195
5	Perspectives on the prediction of catastrophic slope failures from satellite InSAR. Scientific Reports, 2019, 9, 14137.	3.3	106
6	Combination of GNSS, satellite InSAR, and GBInSAR remote sensing monitoring to improve the understanding of a large landslide in high alpine environment. Geomorphology, 2019, 335, 62-75.	2.6	95
7	Landslide susceptibility map refinement using PSInSAR data. Remote Sensing of Environment, 2016, 184, 302-315.	11.0	93
8	Review of Satellite Interferometry for Landslide Detection in Italy. Remote Sensing, 2020, 12, 1351.	4.0	90
9	Exploitation of Amplitude and Phase of Satellite SAR Images for Landslide Mapping: The Case of Montescaglioso (South Italy). Remote Sensing, 2015, 7, 14576-14596.	4.0	84
10	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
11	Remote sensing as tool for development of landslide databases: The case of the Messina Province (Italy) geodatabase. Geomorphology, 2015, 249, 103-118.	2.6	73
12	The contribution of satellite SAR-derived displacement measurements in landslide risk management practices. Natural Hazards, 2017, 86, 327-351.	3.4	57
13	Multi-temporal mapping of land subsidence at basin scale exploiting Persistent Scatterer Interferometry: case study of Gioia Tauro plain (Italy). Journal of Maps, 2012, 8, 514-524.	2.0	56
14	Ground subsidence phenomena in the Delta municipality region (Northern Greece): Geotechnical modeling and validation with Persistent Scatterer Interferometry. International Journal of Applied Earth Observation and Geoinformation, 2014, 28, 78-89.	2.8	55
15	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
16	Persistent Scatterers continuous streaming for landslide monitoring and mapping: the case of the Tuscany region (Italy). Landslides, 2019, 16, 2033-2044.	5.4	55
17	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
18	Synergic use of satellite and ground based remote sensing methods for monitoring the San Leo rock cliff (Northern Italy). Geomorphology, 2016, 264, 80-94.	2.6	53

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19	Space-Borne and Ground-Based InSAR Data Integration: The Ã…knes Test Site. Remote Sensing, 2016, 8, 237.	4.0	52
20	Subsidence Evolution of the Firenzeâ€“Pratoâ€“Pistoia Plain (Central Italy) Combining PSI and GNSS Data. Remote Sensing, 2018, 10, 1146.	4.0	51
21	The effectiveness of high-resolution LiDAR data combined with PSInSAR data in landslide study. Landslides, 2016, 13, 399-410.	5.4	49
22	Semi-Automatic Identification and Pre-Screening of Geologicalâ€“Geotechnical Deformational Processes Using Persistent Scatterer Interferometry Datasets. Remote Sensing, 2019, 11, 1675.	4.0	49
23	Multi-Temporal Evaluation of Landslide Movements and Impacts on Buildings in San Fratello (Italy) By Means of C-Band and X-Band PSI Data. Pure and Applied Geophysics, 2015, 172, 3043-3065.	1.9	45
24	Monitoring Ground Instabilities Using SAR Satellite Data: A Practical Approach. ISPRS International Journal of Geo-Information, 2019, 8, 307.	2.9	42
25	Satellite radar data for back-analyzing a landslide event: the Ponzano (Central Italy) case study. Landslides, 2018, 15, 773-782.	5.4	41
26	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
27	Monitoring the Rapid-Moving Reactivation of Earth Flows by Means of GB-InSAR: The April 2013 Capriglio Landslide (Northern Appennines, Italy). Remote Sensing, 2017, 9, 165.	4.0	37
28	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
29	Combined Use of C- and X-Band SAR Data for Subsidence Monitoring in an Urban Area. Geosciences (Switzerland), 2017, 7, 21.	2.2	36
30	Landslide-Induced Damage Probability Estimation Coupling InSAR and Field Survey Data by Fragility Curves. Remote Sensing, 2019, 11, 1486.	4.0	34
31	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
32	Nation-wide mapping and classification of ground deformation phenomena through the spatial clustering of P-SBAS InSAR measurements: Italy case study. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 189, 1-22.	11.1	26
33	A simple method to help determine landslide susceptibility from spaceborne InSAR data: the Montescaglioso case study. Environmental Earth Sciences, 2016, 75, 1.	2.7	25
34	Using Satellite Interferometry to Infer Landslide Sliding Surface Depth and Geometry. Remote Sensing, 2020, 12, 1462.	4.0	23
35	The COSMO-SkyMed Constellation Monitors the Costa Concordia Wreck. Remote Sensing, 2014, 6, 3988-4002.	4.0	19
36	Regional Recognition and Classification of Active Loess Landslides Using Two-Dimensional Deformation Derived from Sentinel-1 Interferometric Radar Data. Remote Sensing, 2020, 12, 1541.	4.0	19

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37	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
38	Updated landslide inventory of the area between the Furiano and Rosmarino creeks (Sicily, Italy). Journal of Maps, 2016, 12, 1010-1019.	2.0	14
39	Remote Sensing Techniques in Landslide Mapping and Monitoring, Keynote Lecture. , 2017, , 1-19.		10
40	Satellite-based interferometric monitoring of deformation characteristics and their relationship with internal hydrothermal structures of an earthflow in Zhimei, Yushu, Qinghai-Tibet Plateau. Remote Sensing of Environment, 2022, 273, 112987.	11.0	9
41	Satellite InSAR as a New Tool for the Verification of Landslide Engineering Remedial Works at the Regional Scale: A Case Study in the Three Gorges Resevoir Area, China. Applied Sciences (Switzerland), 2020, 10, 6435.	2.5	8
42	Persistent Scatterer Interferometry (PSI) Technique for Landslide Characterization and Monitoring. , 2014, , 351-357.		8
43	A New Set of Tools for the Generation of InSAR Visibility Maps over Wide Areas. Geosciences (Switzerland), 2021, 11, 229.	2.2	7
44	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
45	Ground deformation and associated hazards in NW peloponnese (Greece). European Journal of Remote Sensing, 2018, 51, 710-722.	3.5	5
46	Remote Sensing Mapping and Monitoring of the Capriglio Landslide (Parma Province, Northern Italy). , 2017, , 231-238.		3
47	TXT-tool 2.039-3.1: Satellite Remote Sensing Techniques for Landslides Detection and Mapping. , 2018, , 235-254.		2
48	Monitoring and Early Warning Systems: Applications and Perspectives. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 1-21.	0.3	2
49	Sentinel-1 InSAR Data for the Continuous Monitoring of Ground Deformation and Infrastructures at Regional Scale. Springer Remote Sensing/photogrammetry, 2021, , 63-80.	0.4	1
50	How to Improve the Accuracy of Landslide Susceptibility Maps Using PSInSAR Data. , 2017, , 965-971.		1
51	Advanced Technologies for Landslides (WCoE 2017â€“2020). ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 259-265.	0.3	0