Alessandro Ferretti

List of Publications by Year
in descending order

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		81900	149698
83	12,799	39	56
papers	citations	h-index	g-index

87	87	87	5256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comments on â€œInfluence of the Statistical Properties of Phase and Intensity on Closure Phaseâ€: IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6277-6278.	6.3	2
2	European Ground Motion Service (EGMS). , 2021, , .		20
3	Revealing millimetre-scale ground movements in London using SqueeSARâ„¢. Quarterly Journal of Engineering Geology and Hydrogeology, 2020, 53, 3-11.	1.4	6
4	Monitoring the fate of injected CO₂ using geodetic techniques. The Leading Edge, 2020, 39, 29-37.	0.7	5
5	Monitoring Ground Instabilities Using SAR Satellite Data: A Practical Approach. ISPRS International Journal of Geo-Information, 2019, 8, 307.	2.9	42
6	Semi-Automatic Identification and Pre-Screening of Geologicalâ€“Geotechnical Deformational Processes Using Persistent Scatterer Interferometry Datasets. Remote Sensing, 2019, 11, 1675.	4.0	49
7	Perspectives on the prediction of catastrophic slope failures from satellite InSAR. Scientific Reports, 2019, 9, 14137.	3.3	106
8	Monitoring the Deformation Associated with the Geological Storage of CO2. , 2019, , 93-114.		0
9	A Squeesar Database Over the Entire Japanese Territory. , 2019, , .		8
10	Spatiotemporal Patterns of Precipitationâ€Modulated Landslide Deformation From Independent Component Analysis of InSAR Time Series. Geophysical Research Letters, 2018, 45, 1878-1887.	4.0	73
11	The Maoxian landslide as seen from space: detecting precursors of failure with Sentinel-1 data. Landslides, 2018, 15, 123-133.	5.4	282
12	Continuous, semi-automatic monitoring of ground deformation using Sentinel-1 satellites. Scientific Reports, 2018, 8, 7253.	3.3	195
13	Surface deformation data in the archaeological site of Petra from medium-resolution satellite radar images and SqueeSARâ„¢ algorithm. Journal of Cultural Heritage, 2017, 25, 10-20.	3.3	14
14	Analysis of surface deformations over the whole Italian territory by interferometric processing of ERS, Envisat and COSMO-SkyMed radar data. Remote Sensing of Environment, 2017, 202, 250-275.	11.0	130
15	Mapping Rapid-Moving Landslide with Satellite SAR Images: The Case of Montescaglioso (South Italy). , 2017, , 171-177.		1
16	SAR interferometry analysis of very large areas: Results over the entire Italian territory. , 2016, , .		2
17	InSar Monitoring In Heavy Oil Operations. , 2015, , .		1
18	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

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19	Combined Squee-SAR^{TM} and GPS ground deformation study of Nisyros-Yali volcanic field (Greece) for period 2002–2012. , 2015, , .		2
20	Nationwide ground deformation monitoring by persistent scatterer interferometry. , 2015, , .		4
21	Mapping surface deformation in open pit iron mines of CarajÃ¡s Province (Amazon Region) using an integrated SAR analysis. Engineering Geology, 2015, 193, 61-78.	6.3	84
22	The COSMO-SkyMed Constellation Monitors the Costa Concordia Wreck. Remote Sensing, 2014, 6, 3988-4002.	4.0	19
23	Advanced InSAR Techniques to Support Landslide Monitoring. Lecture Notes in Earth System Sciences, 2014, , 287-290.	0.6	15
24	SqueeSARâ„¢ and GPS ground deformation monitoring of Santorini Volcano (1992â€“2012): Tectonic implications. Tectonophysics, 2013, 594, 38-59.	2.2	56
25	Monitoring deformation at the Geysers Geothermal Field, California using Câ€band and Xâ€band interferometric synthetic aperture radar. Geophysical Research Letters, 2013, 40, 2567-2572.	4.0	50
26	Application of satellite radar interferometry for tunnel and underground infrastructures damage assessment and monitoring. , 2013, , 1363-1370.		2
27	Advanced InSAR Technology for Reservoir Monitoring and Geomechanical Model Calibration. , 2013, , .		7
28	DEM reconstruction with SqueeSAR. , 2012, , .		2
29	The Sentinel-1 mission for the improvement of the scientific understanding and the operational monitoring of the seismic cycle. Remote Sensing of Environment, 2012, 120, 164-174.	11.0	111
30	Sentinel 1 SAR interferometry applications: The outlook for sub millimeter measurements. Remote Sensing of Environment, 2012, 120, 156-163.	11.0	150
31	Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	76
32	Reply to comment by P. Teatini et al. on â€œRecent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radarâ€• Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	2
33	Coseismic deformation pattern of the Emilia 2012 seismic sequence imaged by Radarsat-1 interferometry. Annals of Geophysics, 2012, 55, .	1.0	19
34	Structural assessment of Mount Etna volcano from Permanent Scatterers analysis. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	120
35	Geomechanical response to seasonal gas storage in depleted reservoirs: A case study in the Po River basin, Italy. Journal of Geophysical Research, 2011, 116, .	3.3	119
36	Multiâ€geometry SAR Interferometry for CO2 sequestration monitoring. , 2011, , .		0

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37	A New Algorithm for Processing Interferometric Data-Stacks: SqueeSAR. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3460-3470.	6.3	1,284
38	Impact of high resolution radar imagery on reservoir monitoring. Energy Procedia, 2011, 4, 3465-3471.	1.8	26
39	Persistent Scatterers Interferometry detects and measures ground subsidence in Lisbon. Remote Sensing of Environment, 2011, 115, 2152-2167.	11.0	86
40	From Surface Deformation to Permeabiltiy â€“ A Case Study. , 2010, , .		0
41	Satelliteâ€based measurements of surface deformation reveal fluid flow associated with the geological storage of carbon dioxide. Geophysical Research Letters, 2010, 37, .	4.0	249
42	Recent advances on surface ground deformation measurement by means of repeated space-borne SAR observations. Journal of Geodynamics, 2010, 49, 161-170.	1.6	142
43	SAR Calibration Aided by Permanent Scatterers. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2076-2086.	6.3	40
44	Space-borne SARs: impact of wavelengths and scan modes on ground motion studies. Annals of GIS, 2010, 16, 69-79.	3.1	1
45	Monitoring, Geomorphological Evolution and Slope Stability of Inca Citadel of Machu Picchu: Results from Italian INTERFRASI project. , 2009, , 249-257.		12
46	Dynamics of Mount Etna before, during, and after the Julyâ€“August 2001 eruption inferred from GPS and differential synthetic aperture radar interferometry data. Journal of Geophysical Research, 2008, 113, .	3.3	63
47	Permanent scatterer InSAR reveals seasonal and longâ€term aquiferâ€system response to groundwater pumping and artificial recharge. Water Resources Research, 2008, 44, .	4.2	220
48	Volcanic Deformation Mapping using PSInSARTM: Piton de la Fournaise, Stromboli and Vulcano test sites for the Globvolcano project. , 2008, , .		1
49	Reservoir monitoring and characterization using satellite geodetic data: Interferometric synthetic aperture radar observations from the Krechba field, Algeria. Geophysics, 2008, 73, WA113-WA122.	2.6	127
50	Estimating permeability from quasi-static deformation: Temporal variations and arrival-time inversion. Geophysics, 2008, 73, O37-O52.	2.6	70
51	Ground deformation detection of the greater area of Thessaloniki (Northern Greece) using radar interferometry techniques. Natural Hazards and Earth System Sciences, 2008, 8, 779-788.	3.6	41
52	Using deformation for reservoir monitoring and characterization: InSAR surveillance of CO 2 injection at the Krechba field, Algeria. , 2008, , .		1
53	Submillimeter Accuracy of InSAR Time Series: Experimental Validation. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1142-1153.	6.3	340
54	Creep on the Rodgers Creek fault, northern San Francisco Bay area from a 10 year PSâ€InSAR dataset. Geophysical Research Letters, 2007, 34, .	4.0	47

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55	Urban-Target Recognition by Means of Repeated Spaceborne SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 4043-4058.	6.3	99
56	Accurate DEM Reconstruction from Permanent Scatterers and Multi-baseline Interferometry. , 2006, , .		3
57	Subsidence monitoring within the Athens Basin (Greece) using space radar interferometric techniques. Earth, Planets and Space, 2006, 58, 505-513.	2.5	25
58	Subsidence and flooding in New Orleans. Nature, 2006, 441, 587-588.	27.8	315
59	Resolving vertical tectonics in the San Francisco Bay Area from permanent scatterer InSAR and GPS analysis. Geology, 2006, 34, 221.	4.4	175
60	MONITORING AND ASSESSING THE STATE OF ACTIVITY OF SLOPE INSTABILITIES BY THE PERMANENT SCATTERERS TECHNIQUE. , 2006, , 175-194.		6
61	Higher-Order Permanent Scatterers Analysis. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	56
62	Detection of mining related ground instabilities using the Permanent Scatterers techniqueâ€"a case study in the east of France. International Journal of Remote Sensing, 2005, 26, 201-207.	2.9	78
63	Preliminary Remarks on Monitoring, Geomorphological Evolution and Slope Stability of Inca Citadel of Machu Picchu (C101-1). , 2005, , 39-47.		8
64	On the use of quasi-static deformation to understand reservoir fluid flow. Geophysics, 2005, 70, O13-O27.	2.6	35
65	Dynamics of Slow-Moving Landslides from Permanent Scatterer Analysis. Science, 2004, 304, 1952-1955.	12.6	409
66	Space-based Tectonic Modeling in Subduction Areas Using PSInSAR. Seismological Research Letters, 2004, 75, 598-606.	1.9	14
67	InSAR permanent scatterer analysis reveals ups and downs in San Francisco Bay Area. Eos, 2004, 85, 317.	0.1	72
68	Inflation rate of the Colli Albani volcanic complex retrieved by the permanent scatterers SAR interferometry technique. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	56
69	Monitoring landslides and tectonic motions with the Permanent Scatterers Technique. Engineering Geology, 2003, 68, 3-14.	6.3	399
70	Sar monitoring of progressive and seasonal ground deformation using the permanent scatterers technique. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 1685-1701.	6.3	350
71	Permanent scatterers in SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 8-20.	6.3	3,804
72	Calibration of atmospheric effects on SAR interferograms by GPS and local atmosphere models: first results. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1343-1357.	1.6	38

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73	Sar Interferometry And Its Applications. Surveys in Geophysics, 2000, 21, 159-176.	4.6	30
74	Nonlinear subsidence rate estimation using permanent scatterers in differential SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2202-2212.	6.3	1,821
75	Multibaseline InSAR DEM reconstruction: the wavelet approach. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 705-715.	6.3	186
76	Permanent scatterers in SAR interferometry. , 0, , .		93
77	Automation of the DEM reconstruction from ERS Tandem pairs. , 0, , .		2
78	Full exploitation of the ERS archive: multi data set permanent scatterers analysis. , 0, , .		9
79	Multi-platform permanent scatterers analysis: first results. , 0, , .		5
80	Multi-image satellite SAR interferometry: state of the art and future trends. , 0, , .		4
81	ERS-ENVISAT permanent scatterers interferometry. , 0, , .		5
82	Permanent Scatterers: precision assessment and multi-platform analysis. , 0, , .		8
83	InSAR data for monitoring land subsidence: time to think big. Proceedings of the International Association of Hydrological Sciences, 0, 372, 331-334.	1.0	19