

# Alessandro Ferretti

## List of Publications by Year in descending order

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83  
papers

12,799  
citations

81900

39  
h-index

149698

56  
g-index

87  
all docs

87  
docs citations

87  
times ranked

5256  
citing authors

#	ARTICLE	IF	CITATIONS
1	Permanent scatterers in SAR interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 8-20.	6.3	3,804
2	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
3	A New Algorithm for Processing Interferometric Data-Stacks: SqueeSAR. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3460-3470.	6.3	1,284
4	Dynamics of Slow-Moving Landslides from Permanent Scatterer Analysis. Science, 2004, 304, 1952-1955.	12.6	409
5	Monitoring landslides and tectonic motions with the Permanent Scatterers Technique. Engineering Geology, 2003, 68, 3-14.	6.3	399
6	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
7	Submillimeter Accuracy of InSAR Time Series: Experimental Validation. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1142-1153.	6.3	340
8	Subsidence and flooding in New Orleans. Nature, 2006, 441, 587-588.	27.8	315
9	The Maoxian landslide as seen from space: detecting precursors of failure with Sentinel-1 data. Landslides, 2018, 15, 123-133.	5.4	282
10	Satellite-based measurements of surface deformation reveal fluid flow associated with the geological storage of carbon dioxide. Geophysical Research Letters, 2010, 37, .	4.0	249
11	Permanent scatterer InSAR reveals seasonal and long-term aquifer system response to groundwater pumping and artificial recharge. Water Resources Research, 2008, 44, .	4.2	220
12	Continuous, semi-automatic monitoring of ground deformation using Sentinel-1 satellites. Scientific Reports, 2018, 8, 7253.	3.3	195
13	Multibaseline InSAR DEM reconstruction: the wavelet approach. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 705-715.	6.3	186
14	Resolving vertical tectonics in the San Francisco Bay Area from permanent scatterer InSAR and GPS analysis. Geology, 2006, 34, 221.	4.4	175
15	Sentinel 1 SAR interferometry applications: The outlook for sub millimeter measurements. Remote Sensing of Environment, 2012, 120, 156-163.	11.0	150
16	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
17	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
18	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

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19	Structural assessment of Mount Etna volcano from Permanent Scatterers analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	120
20	Geomechanical response to seasonal gas storage in depleted reservoirs: A case study in the Po River basin, Italy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	119
21	The Sentinel-1 mission for the improvement of the scientific understanding and the operational monitoring of the seismic cycle. <i>Remote Sensing of Environment</i> , 2012, 120, 164-174.	11.0	111
22	Perspectives on the prediction of catastrophic slope failures from satellite InSAR. <i>Scientific Reports</i> , 2019, 9, 14137.	3.3	106
23	Urban-Target Recognition by Means of Repeated Spaceborne SAR Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 4043-4058.	6.3	99
24	Permanent scatterers in SAR interferometry. , 0, , .		93
25	Persistent Scatterers Interferometry detects and measures ground subsidence in Lisbon. <i>Remote Sensing of Environment</i> , 2011, 115, 2152-2167.	11.0	86
26	Exploitation of Amplitude and Phase of Satellite SAR Images for Landslide Mapping: The Case of Montescaglioso (South Italy). <i>Remote Sensing</i> , 2015, 7, 14576-14596.	4.0	84
27	Mapping surface deformation in open pit iron mines of Carajás Province (Amazon Region) using an integrated SAR analysis. <i>Engineering Geology</i> , 2015, 193, 61-78.	6.3	84
28	Detection of mining related ground instabilities using the Permanent Scatterers technique—a case study in the east of France. <i>International Journal of Remote Sensing</i> , 2005, 26, 201-207.	2.9	78
29	Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	76
30	Spatiotemporal Patterns of Precipitation-Modulated Landslide Deformation From Independent Component Analysis of InSAR Time Series. <i>Geophysical Research Letters</i> , 2018, 45, 1878-1887.	4.0	73
31	InSAR permanent scatterer analysis reveals ups and downs in San Francisco Bay Area. <i>Eos</i> , 2004, 85, 317.	0.1	72
32	Estimating permeability from quasi-static deformation: Temporal variations and arrival-time inversion. <i>Geophysics</i> , 2008, 73, O37-O52.	2.6	70
33	Dynamics of Mount Etna before, during, and after the July–August 2001 eruption inferred from GPS and differential synthetic aperture radar interferometry data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
34	Inflation rate of the Colli Albani volcanic complex retrieved by the permanent scatterers SAR interferometry technique. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	56
35	Higher-Order Permanent Scatterers Analysis. <i>Eurasip Journal on Advances in Signal Processing</i> , 2005, 2005, 1.	1.7	56
36	SqueeSAR, InSAR and GPS ground deformation monitoring of Santorini Volcano (1992–2012): Tectonic implications. <i>Tectonophysics</i> , 2013, 594, 38-59.	2.2	56

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37	Monitoring deformation at the Geysers Geothermal Field, California using C-band and X-band interferometric synthetic aperture radar. <i>Geophysical Research Letters</i> , 2013, 40, 2567-2572.	4.0	50
38	Semi-Automatic Identification and Pre-Screening of Geological–Geotechnical Deformational Processes Using Persistent Scatterer Interferometry Datasets. <i>Remote Sensing</i> , 2019, 11, 1675.	4.0	49
39	Creep on the Rodgers Creek fault, northern San Francisco Bay area from a 10 year PSInSAR dataset. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	47
40	Monitoring Ground Instabilities Using SAR Satellite Data: A Practical Approach. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 307.	2.9	42
41	Ground deformation detection of the greater area of Thessaloniki (Northern Greece) using radar interferometry techniques. <i>Natural Hazards and Earth System Sciences</i> , 2008, 8, 779-788.	3.6	41
42	SAR Calibration Aided by Permanent Scatterers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 2076-2086.	6.3	40
43	Calibration of atmospheric effects on SAR interferograms by GPS and local atmosphere models: first results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1343-1357.	1.6	38
44	On the use of quasi-static deformation to understand reservoir fluid flow. <i>Geophysics</i> , 2005, 70, O13-O27.	2.6	35
45	Sar Interferometry And Its Applications. <i>Surveys in Geophysics</i> , 2000, 21, 159-176.	4.6	30
46	Impact of high resolution radar imagery on reservoir monitoring. <i>Energy Procedia</i> , 2011, 4, 3465-3471.	1.8	26
47	Subsidence monitoring within the Athens Basin (Greece) using space radar interferometric techniques. <i>Earth, Planets and Space</i> , 2006, 58, 505-513.	2.5	25
48	European Ground Motion Service (EGMS)., 2021, , .		20
49	The COSMO-SkyMed Constellation Monitors the Costa Concordia Wreck. <i>Remote Sensing</i> , 2014, 6, 3988-4002.	4.0	19
50	Coseismic deformation pattern of the Emilia 2012 seismic sequence imaged by Radarsat-1 interferometry. <i>Annals of Geophysics</i> , 2012, 55, .	1.0	19
51	InSAR data for monitoring land subsidence: time to think big. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 372, 331-334.	1.0	19
52	Advanced InSAR Techniques to Support Landslide Monitoring. <i>Lecture Notes in Earth System Sciences</i> , 2014, , 287-290.	0.6	15
53	Space-based Tectonic Modeling in Subduction Areas Using PSInSAR. <i>Seismological Research Letters</i> , 2004, 75, 598-606.	1.9	14
54	Surface deformation data in the archaeological site of Petra from medium-resolution satellite radar images and SqueeSAR, algorithm. <i>Journal of Cultural Heritage</i> , 2017, 25, 10-20.	3.3	14

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55	Monitoring, Geomorphological Evolution and Slope Stability of Inca Citadel of Machu Picchu: Results from Italian INTERFRASI project. , 2009, , 249-257.		12
56	Full exploitation of the ERS archive: multi data set permanent scatterers analysis. , 0, , .		9
57	Permanent Scatterers: precision assessment and multi-platform analysis. , 0, , .		8
58	A Squeesar Database Over the Entire Japanese Territory. , 2019, , .		8
59	Preliminary Remarks on Monitoring, Geomorphological Evolution and Slope Stability of Inca Citadel of Machu Picchu (C101-1). , 2005, , 39-47.		8
60	Advanced InSAR Technology for Reservoir Monitoring and Geomechanical Model Calibration. , 2013, , .		7
61	Revealing millimetre-scale ground movements in London using SqueeSAR. Quarterly Journal of Engineering Geology and Hydrogeology, 2020, 53, 3-11.	1.4	6
62	MONITORING AND ASSESSING THE STATE OF ACTIVITY OF SLOPE INSTABILITIES BY THE PERMANENT SCATTERERS TECHNIQUE. , 2006, , 175-194.		6
63	Multi-platform permanent scatterers analysis: first results. , 0, , .		5
64	ERS-ENVISAT permanent scatterers interferometry. , 0, , .		5
65	Monitoring the fate of injected CO <sub>2</sub> using geodetic techniques. The Leading Edge, 2020, 39, 29-37.	0.7	5
66	Multi-image satellite SAR interferometry: state of the art and future trends. , 0, , .		4
67	Nationwide ground deformation monitoring by persistent scatterer interferometry. , 2015, , .		4
68	Accurate DEM Reconstruction from Permanent Scatterers and Multi-baseline Interferometry. , 2006, , .		3
69	Automation of the DEM reconstruction from ERS Tandem pairs. , 0, , .		2
70	DEM reconstruction with SqueeSAR. , 2012, , .		2
71	Reply to comment by P. Teatini et al. on "Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar". Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	2
72	Application of satellite radar interferometry for tunnel and underground infrastructures damage assessment and monitoring. , 2013, , 1363-1370.		2

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73	Combined Squee-SAR&lt;sup>g</sup>TM&lt;/sup> and GPS ground deformation study of Nisyros-Yali volcanic field (Greece) for period 2002&#x2013;2012. , 2015, , .		2
74	SAR interferometry analysis of very large areas: Results over the entire Italian territory. , 2016, , .		2
75	Comments on "Influence of the Statistical Properties of Phase and Intensity on Closure Phase" IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6277-6278.	6.3	2
76	Volcanic Deformation Mapping using PSInSARTM: Piton de la Fournaise, Stromboli and Vulcano test sites for the Globvolcano project. , 2008, , .		1
77	Space-borne SARs: impact of wavelengths and scan modes on ground motion studies. Annals of GIS, 2010, 16, 69-79.	3.1	1
78	InSar Monitoring In Heavy Oil Operations. , 2015, , .		1
79	Using deformation for reservoir monitoring and characterization: InSAR surveillance of CO 2 injection at the Krechba field, Algeria. , 2008, , .		1
80	Mapping Rapid-Moving Landslide with Satellite SAR Images: The Case of Montescaglioso (South Italy). , 2017, , 171-177.		1
81	From Surface Deformation to Permeability " A Case Study. , 2010, , .		0
82	Multi-geometry SAR Interferometry for CO2 sequestration monitoring. , 2011, , .		0
83	Monitoring the Deformation Associated with the Geological Storage of CO2. , 2019, , 93-114.		0