

# Guido Luzi

## List of Publications by Year in descending order

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64  
papers

3,244  
citations

159585

30  
h-index

182427

51  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring, prediction, and early warning using ground-based radar interferometry. <i>Landslides</i> , 2010, 7, 291-301.	5.4	305
2	Landslide monitoring by using ground-based SAR interferometry: an example of application to the Tessina landslide in Italy. <i>Engineering Geology</i> , 2003, 68, 15-30.	6.3	301
3	A review of ground-based SAR interferometry for deformation measurement. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 93, 40-48.	11.1	254
4	Integrating radar and laser-based remote sensing techniques for monitoring structural deformation of archaeological monuments. <i>Journal of Archaeological Science</i> , 2013, 40, 176-189.	2.4	164
5	Ground-based radar interferometry for landslides monitoring: atmospheric and instrumental decorrelation sources on experimental data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2454-2466.	6.3	148
6	Remote sensing of building structural displacements using a microwave interferometer with imaging capability. <i>NDT and E International</i> , 2004, 37, 545-550.	3.7	138
7	Flank instability of Stromboli volcano (Aeolian Islands, Southern Italy): Integration of GB-InSAR and geomorphological observations. <i>Geomorphology</i> , 2013, 201, 60-69.	2.6	129
8	Permanent scatterers analysis for atmospheric correction in ground-based SAR interferometry. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1459-1471.	6.3	126
9	A landslide forecasting model using ground based SAR data: The Portalet case study. <i>Engineering Geology</i> , 2009, 105, 220-230.	6.3	114
10	Using ground based radar interferometry during emergency: the case of the A3 motorway (Calabria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	112
11	SAR interferometry for detecting the effects of earthquakes on buildings. <i>NDT and E International</i> , 2002, 35, 615-625.	3.7	92
12	Measuring thermal expansion using X-band persistent scatterer interferometry. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 100, 84-91.	11.1	78
13	Monitoring of an Alpine Glacier by Means of Ground-Based SAR Interferometry. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 495-499.	3.1	74
14	Above-Ground Biomass Retrieval over Tropical Forests: A Novel GNSS-R Approach with CyGNSS. <i>Remote Sensing</i> , 2020, 12, 1368.	4.0	65
15	Terrain mapping by ground-based interferometric radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 2176-2181.	6.3	64
16	Remote sensing based retrieval of snow cover properties. <i>Cold Regions Science and Technology</i> , 2008, 54, 164-175.	3.5	62
17	Comparison of seismometer and radar measurements for the modal identification of civil engineering structures. <i>Engineering Structures</i> , 2013, 51, 10-22.	5.3	55
18	Non-Contact Detection of Breathing Using a Microwave Sensor. <i>Sensors</i> , 2009, 9, 2574-2585.	3.8	54

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19	Sensitivity of CyGNSS Bistatic Reflectivity and SMAP Microwave Radiometry Brightness Temperature to Geophysical Parameters Over Land Surfaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 107-122.	4.9	54
20	Structural static testing by interferometric synthetic radar. NDT and E International, 2000, 33, 565-570.	3.7	46
21	DEM by Ground-Based SAR Interferometry. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 659-663.	3.1	45
22	Discontinuous GBSAR deformation monitoring. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 93, 136-141.	11.1	45
23	Interferometric radar for remote monitoring of building deformations. Electronics Letters, 2000, 36, 569.	1.0	44
24	Using a Ground-Based SAR Interferometer and a Terrestrial Laser Scanner to Monitor a Snow-Covered Slope: Results From an Experimental Data Collection in Tyrol (Austria). IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 382-393.	6.3	43
25	Detection of Breathing and Heartbeat Through Snow Using a Microwave Transceiver. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 57-59.	3.1	41
26	Analysis of Ground-Based SAR Data With Diverse Temporal Baselines. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1614-1623.	6.3	40
27	Radar Interferometry for Monitoring the Vibration Characteristics of Buildings and Civil Structures: Recent Case Studies in Spain. Sensors, 2017, 17, 669.	3.8	39
28	Pre-eruptive ground deformation of Azerbaijan mud volcanoes detected through satellite radar interferometry (DInSAR). Tectonophysics, 2014, 637, 163-177.	2.2	36
29	A radar-based monitoring of the Collserola tower (Barcelona). Mechanical Systems and Signal Processing, 2014, 49, 234-248.	8.0	34
30	Ground Based SAR Interferometry: a Novel Tool for Geoscience. , 0, , .		31
31	Advanced Processing Techniques for Step-Frequency Continuous-Wave Penetrating Radar: The Case Study of "Palazzo Vecchio" Walls (Firenze, Italy). Research in Nondestructive Evaluation, 2006, 17, 71-83.	1.1	30
32	A microwave radar technique for dynamic testing of large structures. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1603-1609.	4.6	27
33	The Potential of Coherent Radar to Support the Monitoring of the Health State of Buildings. Research in Nondestructive Evaluation, 2012, 23, 125-145.	1.1	27
34	Non-contact intrawall penetrating radar for heritage survey: the search of the "Battle of Anghiari"™ by Leonardo da Vinci. NDT and E International, 2005, 38, 151-157.	3.7	26
35	Comarison between the microwave emissivity and backscatter coefficient of crops. IEEE Transactions on Geoscience and Remote Sensing, 1989, 27, 772-778.	6.3	25
36	Monitoring Alpine glacier surface deformations with GB-SAR. Remote Sensing Letters, 2017, 8, 947-956.	1.4	24

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37	First Evaluation of Topography on GNSS-R: An Empirical Study Based on a Digital Elevation Model. Remote Sensing, 2019, 11, 2556.	4.0	23
38	Satellite Data to Improve the Knowledge of Geohazards in World Heritage Sites. Remote Sensing, 2018, 10, 992.	4.0	21
39	Joint Time-Frequency Analysis for Investigation of Layered Masonry Structures Using Penetrating Radar. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 309-317.	6.3	19
40	The Interferometric Use of Radar Sensors for the Urban Monitoring of Structural Vibrations and Surface Displacements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3761-3776.	4.9	19
41	Impact of the Elevation Angle on CYGNSS GNSS-R Bistatic Reflectivity as a Function of Effective Surface Roughness over Land Surfaces. Remote Sensing, 2018, 10, 1749.	4.0	19
42	Ground-based SAR for short and long term monitoring of unstable slopes. , 2006, , .		17
43	4D surface kinematics monitoring through terrestrial radar interferometry and image cross-correlation coupling. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 142, 38-50.	11.1	16
44	Ground-Based Radar Interferometry for Monitoring the Dynamic Performance of a Multitrack Steel Truss High-Speed Railway Bridge. Remote Sensing, 2020, 12, 2594.	4.0	16
45	A Low-Cost Active Reflector for Interferometric Monitoring Based on Sentinel-1 SAR Images. Sensors, 2021, 21, 2008.	3.8	16
46	Dynamic Monitoring of a Mid-Rise Building by Real-Aperture Radar Interferometer: Advantages and Limitations. Remote Sensing, 2020, 12, 1025.	4.0	13
47	Real Aperture Radar interferometry as a tool for buildings vibration monitoring: Limits and potentials from an experimental study. AIP Conference Proceedings, 2012, , .	0.4	10
48	Ground-based synthetic aperture radar interferometry for deformation monitoring: a case study at Geheyan Dam, China. Journal of Applied Remote Sensing, 2017, 11, 1.	1.3	10
49	<title>High-frequency penetrating radar for masonry investigation</title>. , 2002, , .		8
50	Study of subsidence monitoring in Nanjing City with small-baseline InSAR approach. Geomatics, Natural Hazards and Risk, 2019, 10, 1412-1424.	4.3	7
51	Sentinel-1 Data Analysis for Landslide Detection and Mapping: First Experiences in Italy and Spain. , 2017, , 201-208.		6
52	Radar-based dynamic testing of the cable-suspended bridge crossing the Ebro River at Amposta, Spain. , 2014, , .		5
53	Assessment of Post-Earthquake Damaged Building with Interferometric Real Aperture Radar. Remote Sensing, 2019, 11, 2830.	4.0	5
54	Digital elevation models by a GBSAR interferometer for monitoring glaciers: the case study of Belvedere Glacier. , 2008, , .		4

#	ARTICLE	IF	CITATIONS
55	Microwave techniques for measurement of large-structure vibration. Microwave and Optical Technology Letters, 2003, 37, 216-218.	1.4	2
56	Monitoring a tall tower through radar interferometry: The case of the Collserola tower in Barcelona. , 2014, , .		2
57	Building Monitoring Using a Ground-Based Radar. , 2014, , 1-13.		2
58	Ku Band Terrestrial Radar Observations by Means of Circular Polarized Antennas. Remote Sensing, 2019, 11, 270.	4.0	2
59	DInSAR deformation measurement using active and passive reflectors. , 2021, , .		1
60	A microwave interferometer with imaging capability for remote measurements of building displacements. Materials and Structures/Materiaux Et Constructions, 2005, 38, 795-800.	3.1	1
61	Building Monitoring Using a Ground-Based Radar. , 2015, , 380-392.		1
62	An interferometric radar sensor for monitoring the vibrations of structures at short ranges. MATEC Web of Conferences, 2018, 148, 01005.	0.2	0
63	TXT-tool 2.039-3.3: Ground-Based Radar Interferometry for Landslide Monitoring. , 2018, , 287-295.		0
64	Using an Interferometric radar to assess post-earthquake damage status of an urban building: a case study. Journal of Physics: Conference Series, 2018, 1149, 012024.	0.4	0