

Tazio Strozzi

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,435
citations

109137

35
h-index

143772

57
g-index

92
all docs

92
docs citations

92
times ranked

3245
citing authors

#	ARTICLE	IF	CITATIONS
1	The glaciers climate change initiative: Methods for creating glacier area, elevation change and velocity products. <i>Remote Sensing of Environment</i> , 2015, 162, 408-426.	4.6	253
2	Survey and monitoring of landslide displacements by means of L-band satellite SAR interferometry. <i>Landslides</i> , 2005, 2, 193-201.	2.7	204
3	Compilation of a glacier inventory for the western Himalayas from satellite data: methods, challenges, and results. <i>Remote Sensing of Environment</i> , 2012, 124, 832-843.	4.6	190
4	Is there a single surge mechanism? Contrasts in dynamics between glacier surges in Svalbard and other regions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	166
5	Sentinel-1 Support in the GAMMA Software. <i>Procedia Computer Science</i> , 2016, 100, 1305-1312.	1.2	160
6	Estimation of Arctic glacier motion with satellite L-band SAR data. <i>Remote Sensing of Environment</i> , 2008, 112, 636-645.	4.6	126
7	On the application of SAR interferometry to geomorphological studies: estimation of landform attributes and mass movements. <i>Geomorphology</i> , 2005, 66, 119-131.	1.1	112
8	Combined observations of rock mass movements using satellite SAR interferometry, differential GPS, airborne digital photogrammetry, and airborne photography interpretation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	111
9	Error sources and guidelines for quality assessment of glacier area, elevation change, and velocity products derived from satellite data in the Glaciers_cci project. <i>Remote Sensing of Environment</i> , 2017, 203, 256-275.	4.6	109
10	Contemporary glacier retreat triggers a rapid landslide response, Great Aletsch Glacier, Switzerland. <i>Geophysical Research Letters</i> , 2016, 43, 12,466.	1.5	106
11	Natural versus anthropogenic subsidence of Venice. <i>Scientific Reports</i> , 2013, 3, 2710.	1.6	103
12	A consistent glacier inventory for Karakoram and Pamir derived from Landsat data: distribution of debris cover and mapping challenges. <i>Earth System Science Data</i> , 2018, 10, 1807-1827.	3.7	86
13	DInSAR analysis of ALOS PALSAR images for the assessment of very slow landslides: the Tena Valley case study. <i>Landslides</i> , 2014, 11, 225-246.	2.7	81
14	Glacier surge dynamics of SortebrÃ¡, east Greenland, from synthetic aperture radar feature tracking. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	73
15	Thaw Subsidence of a Yedoma Landscape in Northern Siberia, Measured In Situ and Estimated from TerraSAR-X Interferometry. <i>Remote Sensing</i> , 2018, 10, 494.	1.8	69
16	Assessing short- and long-time displacements in the Venice coastland by synthetic aperture radar interferometric point target analysis. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	68
17	Sentinel-1 SAR Interferometry for Surface Deformation Monitoring in Low-Land Permafrost Areas. <i>Remote Sensing</i> , 2018, 10, 1360.	1.8	67
18	Evidence of the present relative land stability of Venice, Italy, from land, sea, and space observations. <i>Geophysical Research Letters</i> , 2002, 29, 3-1.	1.5	64

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19	Combining L- and X-Band SAR Interferometry to Assess Ground Displacements in Heterogeneous Coastal Environments: The Po River Delta and Venice Lagoon, Italy. <i>Remote Sensing</i> , 2016, 8, 308.	1.8	61
20	Mapping wet snowcovers with SAR interferometry. <i>International Journal of Remote Sensing</i> , 1999, 20, 2395-2403.	1.3	59
21	TerraSAR-X reveals the impact of the mobile barrier works on Venice coastland stability. <i>Remote Sensing of Environment</i> , 2009, 113, 2682-2688.	4.6	57
22	Interpretation of Aerial Photographs and Satellite SAR Interferometry for the Inventory of Landslides. <i>Remote Sensing</i> , 2013, 5, 2554-2570.	1.8	56
23	Landslide hazard assessment in the Himalayas (Nepal and Bhutan) based on Earth-Observation data. <i>Engineering Geology</i> , 2018, 237, 217-228.	2.9	56
24	Satellite SAR interferometry for the improved assessment of the state of activity of landslides: A case study from the Cordilleras of Peru. <i>Remote Sensing of Environment</i> , 2018, 217, 111-125.	4.6	50
25	Exploitation of Large Archives of ERS and ENVISAT C-Band SAR Data to Characterize Ground Deformations. <i>Remote Sensing</i> , 2013, 5, 3896-3917.	1.8	49
26	Circum-Arctic Changes in the Flow of Glaciers and Ice Caps from Satellite SAR Data between the 1990s and 2017. <i>Remote Sensing</i> , 2017, 9, 947.	1.8	49
27	Monitoring Rock Glacier Kinematics with Satellite Synthetic Aperture Radar. <i>Remote Sensing</i> , 2020, 12, 559.	1.8	49
28	Ground surface dynamics in the northern Adriatic coastland over the last two decades. <i>Rendiconti Lincei</i> , 2010, 21, 115-129.	1.0	46
29	Monitoring Surface Deformation over a Failing Rock Slope with the ESA Sentinels: Insights from Moosfluh Instability, Swiss Alps. <i>Remote Sensing</i> , 2018, 10, 672.	1.8	44
30	Rapid dynamic activation of a marine-based Arctic ice cap. <i>Geophysical Research Letters</i> , 2014, 41, 8902-8909.	1.5	43
31	The 2015 Surge of Hispar Glacier in the Karakoram. <i>Remote Sensing</i> , 2017, 9, 888.	1.8	41
32	Mapping slope movements in Alpine environments using TerraSAR-X interferometric methods. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 109, 178-192.	4.9	39
33	DEM generation using ERS and ENVISAT interferometry. <i>Journal of Applied Geophysics</i> , 2009, 69, 51-58.	0.9	38
34	Land Subsidence in Coastal Environments: Knowledge Advance in the Venice Coastland by TerraSAR-X PSI. <i>Remote Sensing</i> , 2018, 10, 1191.	1.8	38
35	Surface subsidence and uplift above a headrace tunnel in metamorphic basement rocks of the Swiss Alps as detected by satellite SAR interferometry. <i>Remote Sensing of Environment</i> , 2011, 115, 1353-1360.	4.6	37
36	Understanding land subsidence in salt marshes of the Venice Lagoon from SAR Interferometry and ground-based investigations. <i>Remote Sensing of Environment</i> , 2018, 205, 56-70.	4.6	36

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37	Land subsidence of natural transitional environments by satellite radar interferometry on artificial reflectors. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1177-1191.	1.0	35
38	Ice dynamics during a surge of Sortebr�, East Greenland. <i>Annals of Glaciology</i> , 2002, 34, 323-329.	2.8	32
39	Widespread surface subsidence measured with satellite SAR interferometry in the Swiss alpine range associated with the construction of the Gotthard Base Tunnel. <i>Remote Sensing of Environment</i> , 2017, 190, 1-12.	4.6	31
40	Inventory and changes of rock glacier creep speeds in Ile Alatau and Kung�y Ala-Too, northern Tien Shan, since the 1950s. <i>Cryosphere</i> , 2021, 15, 927-949.	1.5	31
41	Seasonal Progression of Ground Displacement Identified with Satellite Radar Interferometry and the Impact of Unusually Warm Conditions on Permafrost at the Yamal Peninsula in 2016. <i>Remote Sensing</i> , 2019, 11, 1865.	1.8	30
42	Vertical movements of frost mounds in subarctic permafrost regions analyzed using geodetic survey and satellite interferometry. <i>Earth Surface Dynamics</i> , 2015, 3, 409-421.	1.0	23
43	Importance of basal processes in simulations of a surging Svalbard outlet glacier. <i>Cryosphere</i> , 2014, 8, 1393-1405.	1.5	22
44	Decadal Scale Changes in Glacier Area in the Hohe Tauern National Park (Austria) Determined by Object-Based Image Analysis. <i>Remote Sensing</i> , 2016, 8, 67.	1.8	21
45	Frontal destabilization of Stonebreen, Edge�ya, Svalbard. <i>Cryosphere</i> , 2017, 11, 553-566.	1.5	21
46	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. <i>Remote Sensing</i> , 2018, 10, 929.	1.8	18
47	Surge-related topographic change of the glacier Sortebr�, East Greenland, derived from synthetic aperture radar interferometry. <i>Journal of Glaciology</i> , 2003, 49, 381-390.	1.1	16
48	Assessment of heat sources on the control of fast flow of Vestfonna ice cap, Svalbard. <i>Cryosphere</i> , 2014, 8, 1951-1973.	1.5	16
49	Fusion of Multi-Source Satellite Data and DEMs to Create a New Glacier Inventory for Novaya Zemlya. <i>Remote Sensing</i> , 2017, 9, 1122.	1.8	15
50	Incorporating InSAR kinematics into rock glacier inventories: insights from 11 regions worldwide. <i>Cryosphere</i> , 2022, 16, 2769-2792.	1.5	12
51	A Case Study on the Correction of Atmospheric Phases for SAR Tomography in Mountainous Regions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 416-431.	2.7	11
52	On the uniformity of anthropogenic Venice uplift. <i>Terra Nova</i> , 2009, 21, 467-473.	0.9	9
53	Paraglacial Rock Slope Stability Under Changing Environmental Conditions, Safuna Lakes, Cordillera Blanca Peru. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	9
54	Regional and local land subsidence at the Venice coastland by TerraSAR-X PSI. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 372, 199-205.	1.0	9

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55	Glacial lake outburst flood hazard assessment by satellite Earth observation in the Himalayas (Chomolhari area, Bhutan). <i>Geographica Helvetica</i> , 2019, 74, 125-139.	0.4	8
56	Survey of landslide activity and rockglaciers movement in the Swiss Alps with TerraSAR-X. , 2009, , .		7
57	Three different glacier surges at a spot: what satellites observe and what not. <i>Cryosphere</i> , 2022, 16, 2505-2526.	1.5	7
58	Estimation of ice thickness of tundra lakes using ERS - ENVISAT cross-interferometry. , 2010, , .		6
59	Methods to avoid being affected by non-zero closure phase in InSAR time series analysis in a multi-reference stack. <i>Procedia Computer Science</i> , 2021, 181, 511-518.	1.2	6
60	Ionospheric path delay estimation using split-beam interferometry. , 2012, , .		5
61	Comparison of Tropospheric Path Delay Estimates from GNSS and Space-Borne SAR Interferometry in Alpine Conditions. <i>Remote Sensing</i> , 2019, 11, 1789.	1.8	5
62	Land subsidence and associated ground fracturing: study cases in central Mexico with ALOS-2 PALSAR-2 ScanSAR Interferometry. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 179-182.	1.0	5
63	Cosmo-skymed versus TerraSAR-X -based interferometry for monitoring the mose settlements at the Venice lagoon inlets. , 2012, , .		4
64	The Surface Velocity Response of a Tropical Glacier to Intra and Inter Annual Forcing, Cordillera Blanca, Peru. <i>Remote Sensing</i> , 2021, 13, 2694.	1.8	4
65	TerraSAR-X interferometry for surface deformation monitoring on periglacial area. , 2012, , .		3
66	Ground Deformation Monitoring Over Venice Lagoon Using Combined DInSAR/PSI Techniques. , 2014, , 183-186.		3
67	Accelerating Landslide Hazard at Kandersteg, Swiss Alps; Combining 28 Years of Satellite InSAR and Single Campaign Terrestrial Radar Data. <i>ICL Contribution To Landslide Disaster Risk Reduction</i> , 2021, , 267-273.	0.3	2
68	Rock glacier monitoring with spaceborne SAR in Graechen, Valais, Switzerland. , 2012, , .		1
69	Vulnerability of Venice's coastland to relative sea-level rise. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 689-695.	1.0	1
70	Landslide mapping in Switzerland with ENVISAT ASAR. , 2012, , .		0
71	InSAR Data for Mapping and Monitoring Landslides in Tena Valley. , 2013, , 243-249.		0
72	Capability of X-Band Persistent Scatterer Interferometry to Monitor Land Subsidence in the Venice Lagoon. , 2014, , 175-178.		0