

Luigi Tosi

List of Publications by Year in descending order

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94
papers

3,196
citations

126907

33
h-index

168389

53
g-index

100
all docs

100
docs citations

100
times ranked

2752
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the global threat of land subsidence. <i>Science</i> , 2021, 371, 34-36.	12.6	204
2	Monitoring the saltwater intrusion by time lapse electrical resistivity tomography: The Chioggia test site (Venice Lagoon, Italy). <i>Journal of Applied Geophysics</i> , 2009, 69, 117-130.	2.1	168
3	Eustacy and land subsidence in the Venice Lagoon at the beginning of the new millennium. <i>Journal of Marine Systems</i> , 2004, 51, 345-353.	2.1	133
4	Mapping regional land displacements in the Venice coastland by an integrated monitoring system. <i>Remote Sensing of Environment</i> , 2005, 98, 403-413.	11.0	124
5	Quantitative evidence that compaction of Holocene sediments drives the present land subsidence of the Po Delta, Italy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	122
6	Global change and relative sea level rise at Venice: what impact in term of flooding. <i>Climate Dynamics</i> , 2010, 35, 1039-1047.	3.8	113
7	Natural versus anthropogenic subsidence of Venice. <i>Scientific Reports</i> , 2013, 3, 2710.	3.3	103
8	Sequence stratigraphy based on high-resolution seismic profiles in the late Pleistocene and Holocene deposits of the Venice area. <i>Marine Geology</i> , 2008, 253, 185-198.	2.1	94
9	The Lagoon of Venice: geological setting, evolution and land subsidence. <i>Episodes</i> , 2003, 26, 264-268.	1.2	90
10	Resolving land subsidence within the Venice Lagoon by persistent scatterer SAR interferometry. <i>Physics and Chemistry of the Earth</i> , 2012, 40-41, 72-79.	2.9	88
11	Using high resolution data to reveal depth-dependent mechanisms that drive land subsidence: The Venice coast, Italy. <i>Tectonophysics</i> , 2009, 474, 271-284.	2.2	83
12	Heavy Metal Pollution in Central Venice Lagoon Bottom Sediments: Evaluation of the Metal Bioavailability by Geochemical Speciation Procedure. <i>Environmental Technology (United Kingdom)</i> , 1997, 18, 593-604.	2.2	82
13	Surface water-groundwater exchange in transitional coastal environments by airborne electromagnetics: The Venice Lagoon example. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	79
14	Anatomy of the Holocene succession of the southern Venice lagoon revealed by very high-resolution seismic data. <i>Continental Shelf Research</i> , 2009, 29, 1343-1359.	1.8	73
15	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
16	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.	4.0	64
17	Geochemical characteristics of phosphorus in surface sediments of two major Chinese mariculture areas: The Laizhou Bay and the coastal waters of the Zhangzi Island. <i>Marine Pollution Bulletin</i> , 2014, 83, 343-351.	5.0	64
18	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.	4.0	61

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19	TerraSAR-X reveals the impact of the mobile barrier works on Venice coastland stability. Remote Sensing of Environment, 2009, 113, 2682-2688.	11.0	57
20	Interpreting the progressive eutrophication behind the world's largest macroalgal blooms with water quality and ocean color data. Natural Hazards, 2015, 78, 7-21.	3.4	49
21	Peat land oxidation enhances subsidence in the Venice watershed. Eos, 2005, 86, 217.	0.1	47
22	Ground surface dynamics in the northern Adriatic coastland over the last two decades. Rendiconti Lincei, 2010, 21, 115-129.	2.2	46
23	Interaction between Climate Changes, Eustacy and Land Subsidence in the North Adriatic Region, Italy. Marine Ecology, 2002, 23, 38-50.	1.1	44
24	A new project to monitor land subsidence in the northern Venice coastland (Italy). Environmental Geology, 2007, 52, 889-898.	1.2	42
25	Saltwater contamination in the managed low-lying farmland of the Venice coast, Italy: An assessment of vulnerability. Science of the Total Environment, 2015, 533, 356-369.	8.0	42
26	Morphostratigraphic framework of the Venice Lagoon (Italy) by very shallow water VHRS surveys: Evidence of radical changes triggered by human-induced river diversions. Geophysical Research Letters, 2009, 36, .	4.0	40
27	Land subsidence in the Friuli Venezia Giulia coastal plain, Italy: 1992-2010 results from SAR-based interferometry. Science of the Total Environment, 2018, 633, 752-764.	8.0	40
28	Understanding the hydrogeology of the Venice Lagoon subsurface with airborne electromagnetics. Journal of Hydrology, 2011, 411, 342-354.	5.4	39
29	The 1966 Flooding of Venice: What Time Taught Us for the Future. Oceanography, 2016, 29, .	1.0	39
30	Land Subsidence in Coastal Environments: Knowledge Advance in the Venice Coastland by TerraSAR-X PSI. Remote Sensing, 2018, 10, 1191.	4.0	38
31	Understanding land subsidence in salt marshes of the Venice Lagoon from SAR Interferometry and ground-based investigations. Remote Sensing of Environment, 2018, 205, 56-70.	11.0	36
32	Coastal processes and environmental hazards: the Buenos Aires (Argentina) and Venetian (Italy) littorals. Environmental Geology, 2007, 51, 1307-1316.	1.2	35
33	Land subsidence of natural transitional environments by satellite radar interferometry on artificial reflectors. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1177-1191.	2.8	35
34	Coastal erosion and loss of wetlands in the middle Río de la Plata estuary (Argentina). Applied Geography, 2016, 76, 37-48.	3.7	33
35	The impact of Late Quaternary glacio-eustasy and tectonics on sequence development: evidence from both uplifting and subsiding settings in Italy. Terra Nova, 2010, 22, 324-329.	2.1	32
36	Vegetational and environmental changes in the eastern Venetian coastal plain (Northern Italy) over the past 80,000 years. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 253, 300-316.	2.3	31

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37	Rapid response of tidal channel networks to sea-level variations (Venice Lagoon, Italy). <i>Global and Planetary Change</i> , 2012, 92-93, 191-197.	3.5	26
38	A retrospective assessment of the hydrological conditions of the Samborombán coastland (Argentina). <i>Ecological Engineering</i> , 2014, 67, 223-237.	3.6	26
39	Aptitude of modern salt marshes to counteract relative sea-level rise, Venice Lagoon (Italy). <i>Geology</i> , 2011, 39, 755-758.	4.4	25
40	Shoreline detection: capability of COSMO-SkyMed and high-resolution multispectral images. <i>European Journal of Remote Sensing</i> , 2013, 46, 837-853.	3.5	25
41	New insights on the Adria plate geodynamics from the northern Adriatic perspective. <i>Marine and Petroleum Geology</i> , 2019, 109, 687-697.	3.3	25
42	Hydro-morphologic setting of the Samborombán Bay (Argentina) at the end of the 21st century. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 523-534.	3.6	24
43	Paleochannel and beach-bar palimpsest topography as initial substrate for coralligenous buildups offshore Venice, Italy. <i>Scientific Reports</i> , 2017, 7, 1321.	3.3	22
44	Vulnerability to relative sea-level rise in the Po river delta (Italy). <i>Estuarine, Coastal and Shelf Science</i> , 2019, 228, 106379.	2.1	22
45	Integrating Geotechnical and Interferometric SAR Measurements for Secondary Compressibility Characterization of Coastal Soils. <i>Surveys in Geophysics</i> , 2012, 33, 907-926.	4.6	21
46	The Crotona Megalandslide, southern Italy: Architecture, timing and tectonic control. <i>Scientific Reports</i> , 2018, 8, 7778.	3.3	21
47	The ebb-tidal delta of the Venice Lagoon, Italy. <i>Holocene</i> , 2008, 18, 267-278.	1.7	20
48	Three-dimensional analysis of the Plio-Pleistocene seismic sequences in the Venice Lagoon (Italy). <i>Journal of the Geological Society</i> , 2012, 169, 507-510.	2.1	20
49	Multi-sourced depositional sequences in the Neogene to Quaternary succession of the Venice area (northern Italy). <i>Marine and Petroleum Geology</i> , 2014, 56, 1-15.	3.3	20
50	Sequence stratigraphic significance of tidal channel systems in a shallow lagoon (Venice, Italy). <i>Holocene</i> , 2014, 24, 646-658.	1.7	19
51	Hydrogeological effects of dredging navigable canals through lagoon shallows. A case study in Venice. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5627-5646.	4.9	19
52	The impact of relative sea level rise on the Northern Adriatic Sea coast, Italy. <i>WIT Transactions on Ecology and the Environment</i> , 2009, , .	0.0	19
53	Long-term groundwater dynamics in the coastal confined aquifers of Venice (Italy). <i>Estuarine, Coastal and Shelf Science</i> , 2013, 135, 248-259.	2.1	18
54	Resolving the thickness of peat deposits with contact-less electromagnetic methods: A case study in the Venice coastland. <i>Science of the Total Environment</i> , 2020, 737, 139361.	8.0	18

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55	Relationship between peat bed formation and climate changes during the last glacial in the Venice area. <i>Sedimentary Geology</i> , 2011, 238, 172-180.	2.1	16
56	Temporal analysis of the changes in the sand-dune barrier in the Buenos Aires Province, Argentina, and their relationship with the water resources. <i>Applied Geography</i> , 2014, 54, 169-181.	3.7	16
57	Comment on "Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar" by Y. Bock, S. Wdowinski, A. Ferretti, F. Novali, and A. Fumagalli. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	15
58	A new hydrogeologic model to predict anthropogenic uplift of Venice. <i>Water Resources Research</i> , 2011, 47, .	4.2	14
59	Estimating the freshwater-lens reserve in the coastal plain of the middle Río de la Plata Estuary (Argentina). <i>Science of the Total Environment</i> , 2018, 630, 357-366.	8.0	14
60	Groundwater Monitoring Systems to Understand Sea Water Intrusion Dynamics in the Mediterranean: The Neretva Valley and the Southern Venice Coastal Aquifers Case Studies. <i>Water (Switzerland)</i> , 2021, 13, 561.	2.7	13
61	Sensitivity, Hazard, and Vulnerability of Farmlands to Saltwater Intrusion in Low-Lying Coastal Areas of Venice, Italy. <i>Water (Switzerland)</i> , 2022, 14, 64.	2.7	12
62	Environmental isotopes applied to the evaluation and quantification of evaporation processes in wetlands: a case study in the Ajá ³ Coastal Plain wetland, Argentina. <i>Environmental Earth Sciences</i> , 2015, 74, 5839-5847.	2.7	11
63	Advances and Practices on the Research, Prevention and Control of Land Subsidence in Coastal Cities. <i>Acta Geologica Sinica</i> , 2020, 94, 162-175.	1.4	10
64	On the uniformity of anthropogenic Venice uplift. <i>Terra Nova</i> , 2009, 21, 467-473.	2.1	9
65	Detection of Low Salinity Groundwater Seeping into the Eastern Laizhou Bay (China) with the Aid of Landsat Thermal Data. <i>Journal of Coastal Research</i> , 2016, 74, 149-156.	0.3	9
66	Groundwater geochemistry in coastal wetlands: A case study in the Parque Costero del Sur biosphere reserve, Argentina. <i>Catena</i> , 2019, 182, 104143.	5.0	9
67	A Coupled Biomorpho-Geomechanical Model of Tidal Marsh Evolution. <i>Water Resources Research</i> , 2019, 55, 8330-8349.	4.2	9
68	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
69	Soil contamination and land subsidence raise concern in the Venice watershed, Italy. <i>WIT Transactions on Ecology and the Environment</i> , 2006, , .	0.0	8
70	The Petilia-Sosti Shear Zone (Calabrian Arc, southern Italy): An onshore-offshore regional active structure. <i>Marine and Petroleum Geology</i> , 2022, 141, 105693.	3.3	8
71	Land subsidence monitoring service in the Lagoon of Venice. , 0, , .		7
72	The hydrologic landscape of the Ajá ³ coastal plain, Argentina: An assessment of human-induced changes. <i>Anthropocene</i> , 2017, 18, 1-14.	3.3	7

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73	Petrographic and geochemical characterization of the early formative stages of Northern Adriatic shelf rocky buildups. <i>Marine and Petroleum Geology</i> , 2018, 91, 321-337.	3.3	5
74	Utilizing benthic foraminifera to explore the environmental condition of the Laizhou Bay (Bohai Sea), Tj ETQq0 0 0 rrgBT /Overlock 10 Tf	3.0	5
75	Cosmo-skymed versus TerraSAR-X -based interferometry for monitoring the mose settlements at the Venice lagoon inlets. , 2012, , .		4
76	From rapid coastal collapse to slow sedimentary recovery: The morphological ups and downs of the modern Po Delta. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 260, 107499.	2.1	4
77	Use of remote sensing for the delineation of surface peat deposits south of the Venice Lagoon (Italy). , 0, , .		3
78	Monitoring land subsidence within the Venice Lagoon with SAR interferometry on Trihedral Corner Reflectors. , 2009, , .		3
79	Driving the Modeling of Saltwater Intrusion at the Venice Coastland (Italy) by Ground-Based, Water-, and Air-Borne Geophysical Investigations. , 2010, , .		3
80	Modern geological mapping and subsurface lithostratigraphic setting of the Venice Lagoon (Italy). <i>Rendiconti Lincei</i> , 2010, 21, 239-252.	2.2	3
81	Ground Deformation Monitoring Over Venice Lagoon Using Combined DInSAR/PSI Techniques. , 2014, , 183-186.		3
82	An experiment on a sand-dune environment in Southern Venetian coast based on GPR, VES and documentary evidence. <i>Annals of Geophysics</i> , 2000, 43, .	1.0	3
83	Continental and marine surficial water “ groundwater interactions: the case of the southern coastland of Venice (Italy). <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 379, 387-392.	1.0	3
84	Impact, Mechanism, Monitoring of Land Subsidence in Coastal Cities (Annual Work of IGCP 663). <i>Acta Geologica Sinica</i> , 2019, 93, 158-159.	1.4	2
85	Surface water“groundwater exchange in transitional coastal environments by airborne electromagnetics: The Venice Lagoon example. , 2010, .		2
86	Characterizing marshland compressibility by an in-situ loading test: design and set-up of an experiment in the Venice Lagoon. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 345-351.	1.0	2
87	Quasi-simultaneous measurements of suspended sediments concentration (SSC) of very turbid waters at the Yellow River Estuary with the multi-spectral HJ-1 Imageries and in-situ sampling. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
88	Modeling the saltwater intrusion in the lowlying catchment of the southern Venice Lagoon, Italy. , 2009, , .		1
89	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
90	SAR interferometry confirms the present land stability of Venice. , 0, , .		0

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91	Application of Airborne Electromagnetics to Effective Hydrogeological Modelling of Delicate Coastal Areas. <i>Journal of Coastal Research</i> , 2011, 61, 340-343.	0.3	0
92	Features of turbid waters from Hyperspectral Imager for the Coastal Ocean (HICO): Preliminary results at the Yellow River Delta and the Bohai Sea. , 2012, , .		0
93	The Impact of Land Subsidence on Preservation of Cultural Heritage Sites: The Case Study of Aquileia (Venetian-Friulian Coastland, North-Eastern Italy). , 2014, , 179-182.		0
94	Capability of X-Band Persistent Scatterer Interferometry to Monitor Land Subsidence in the Venice Lagoon. , 2014, , 175-178.		0