

Mauro Guglielmin

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

4,906
citations

117571

34
h-index

106281

65
g-index

104
all docs

104
docs citations

104
times ranked

5101
citing authors

#	ARTICLE	IF	CITATIONS
1	Permafrost is warming at a global scale. <i>Nature Communications</i> , 2019, 10, 264.	5.8	1,039
2	Antarctic climate change and the environment: an update. <i>Polar Record</i> , 2014, 50, 237-259.	0.4	411
3	Unexpected impacts of climate change on alpine vegetation. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 360-364.	1.9	255
4	Thermal state of permafrost and active layer monitoring in the antarctic: Advances during the international polar year 2007-2009. <i>Permafrost and Periglacial Processes</i> , 2010, 21, 182-197.	1.5	167
5	ACCELERATING CLIMATE CHANGE IMPACTS ON ALPINE GLACIER FOREFIELD ECOSYSTEMS IN THE EUROPEAN ALPS. , 2008, 18, 637-648.		143
6	Climate warming and permafrost dynamics in the Antarctic Peninsula region. <i>Global and Planetary Change</i> , 2013, 100, 215-223.	1.6	135
7	Active layer thermal regime under different vegetation conditions in permafrost areas. A case study at Signy Island (Maritime Antarctica). <i>Geoderma</i> , 2008, 144, 73-85.	2.3	103
8	Primary succession of lichen and bryophyte communities following glacial recession on Signy Island, South Orkney Islands, Maritime Antarctic. <i>Antarctic Science</i> , 2012, 24, 323-336.	0.5	101
9	Ground surface temperature (GST), active layer and permafrost monitoring in continental Antarctica. <i>Permafrost and Periglacial Processes</i> , 2006, 17, 133-143.	1.5	91
10	Biotic and abiotic factors influencing soil properties across a latitudinal gradient in Victoria Land, Antarctica. <i>Geoderma</i> , 2008, 144, 50-65.	2.3	84
11	Vascular plant changes in extreme environments: effects of multiple drivers. <i>Climatic Change</i> , 2016, 134, 651-665.	1.7	81
12	Permafrost conditions in the Mediterranean region since the Last Glaciation. <i>Earth-Science Reviews</i> , 2018, 185, 397-436.	4.0	81
13	Permafrost warming and vegetation changes in continental Antarctica. <i>Environmental Research Letters</i> , 2014, 9, 045001.	2.2	74
14	Searching for eukaryotic life preserved in Antarctic permafrost. <i>Polar Biology</i> , 2012, 35, 749-757.	0.5	62
15	A permafrost warming in a cooling Antarctica?. <i>Climatic Change</i> , 2012, 111, 177-195.	1.7	62
16	Interactions between climate, vegetation and the active layer in soils at two Maritime Antarctic sites. <i>Antarctic Science</i> , 2006, 18, 323-333.	0.5	60
17	The internal structure of rock glaciers and recently deglaciated slopes as revealed by geoelectrical tomography: insights on permafrost and recent glacial evolution in the Central and Western Alps (Italy-France). <i>Quaternary Science Reviews</i> , 2010, 29, 507-521.	1.4	60
18	Frozen ground phenomena in the vicinity of terra nova bay, northern victoria land, antarctica: a preliminary report. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2000, 82, 513-526.	0.6	59

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19	Rock glaciers, proglacial ramparts and periglacial ramparts in the south-eastern Alps. <i>Geomorphology</i> , 2016, 269, 112-121.	1.1	56
20	Applicability of frequency-domain and time-domain electromagnetic methods for mountain permafrost studies. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 39-52.	1.5	54
21	Spatial and temporal variability of ground surface temperature and active layer thickness at the margin of maritime Antarctica, Signy Island. <i>Geomorphology</i> , 2012, 155-156, 20-33.	1.1	54
22	Precipitation-temperature changes and evolution of a small glacier in the southeastern European Alps during the last 90 years. <i>International Journal of Climatology</i> , 2015, 35, 2783-2797.	1.5	52
23	Twenty years of European mountain permafrost dynamics—the PACE legacy. <i>Environmental Research Letters</i> , 2020, 15, 104070.	2.2	50
24	Observations on the ice-marginal, periglacial geomorphology of Terra Nova Bay, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 1999, 10, 331-347.	1.5	49
25	Cryogenic Weathering of Granite, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2000, 11, 305-314.	1.5	49
26	Relationships between vegetation patterns and periglacial landforms in northwestern Svalbard. <i>Polar Biology</i> , 2004, 27, 562.	0.5	49
27	Vegetation colonization of permafrost-related landslides, Ellesmere Island, Canadian High Arctic. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
28	Weathering of granite in Antarctica: II. Thermal stress at the grain scale. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 475-493.	1.2	46
29	Biotic and abiotic processes on granite weathering landforms in a cryotic environment, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 69-85.	1.5	43
30	Tafoni development in a cryotic environment: an example from Northern Victoria Land, Antarctica. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 1502-1519.	1.2	41
31	Ecology of moss banks on Signy Island (maritime Antarctic). <i>Botanical Journal of the Linnean Society</i> , 2017, 184, 518-533.	0.8	39
32	Warming permafrost and active layer variability at Cime Bianche, Western European Alps. <i>Cryosphere</i> , 2015, 9, 647-661.	1.5	38
33	Relationships between glacier and rock glacier in the Maritime Alps, Schiantala Valley, Italy. <i>Quaternary Research</i> , 2007, 68, 353-363.	1.0	37
34	Weathering of granite in Antarctica: I. Light penetration into rock and implications for rock weathering and endolithic communities. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 295-307.	1.2	37
35	Influence of vegetation on the ground thermal regime in continental Antarctica. <i>Geoderma</i> , 2009, 151, 215-223.	2.3	37
36	Response of ice caves to weather extremes in the southeastern Alps, Europe. <i>Geomorphology</i> , 2016, 261, 1-11.	1.1	37

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37	Evaluation of Internal Structure, Volume and Mass of Glacial Bodies by Integrated LiDAR and Ground Penetrating Radar Surveys: The Case Study of Canin Eastern Glacieret (Julian Alps, Italy). <i>Surveys in Geophysics</i> , 2015, 36, 231-252.	2.1	35
38	Permafrost and snow monitoring at Rothera Point (Adelaide Island, Maritime Antarctica): Implications for rock weathering in cryotic conditions. <i>Geomorphology</i> , 2014, 225, 47-56.	1.1	34
39	Permafrost-glacial evolution during the Holocene in the Italian Central Alps. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 111-124.	1.5	31
40	PERMACLIM: a model for the distribution of mountain permafrost, based on climatic observations. <i>Geomorphology</i> , 2003, 51, 245-257.	1.1	31
41	Active layer monitoring in Antarctica: an overview of results from 2006 to 2015. <i>Polar Geography</i> , 2021, 44, 217-231.	0.8	30
42	Acceleration of climate warming and plant dynamics in Antarctica. <i>Current Biology</i> , 2022, 32, 1599-1606.e2.	1.8	30
43	Permafrost thermal regime from two 30m deep boreholes in southern victoria land, antarctica. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 129-139.	1.5	29
44	Changes in lichen diversity and community structure with fur seal population increase on Signy Island, South Orkney Islands. <i>Antarctic Science</i> , 2011, 23, 65-77.	0.5	28
45	Pressurized brines in continental Antarctica as a possible analogue of Mars. <i>Scientific Reports</i> , 2016, 6, 33158.	1.6	28
46	Patterns of spatio-temporal paraglacial response in the Antarctic Peninsula region and associated ecological implications. <i>Earth-Science Reviews</i> , 2019, 192, 379-402.	4.0	28
47	Diversity trends of bryophytes in continental Antarctica. <i>Polar Biology</i> , 2013, 36, 259-271.	0.5	27
48	Microbial Assemblages in Pressurized Antarctic Brine Pockets (Tarn Flat, Northern Victoria Land): A Hotspot of Biodiversity and Activity. <i>Microorganisms</i> , 2019, 7, 333.	1.6	26
49	An Old Relict Glacier Body Preserved in Permafrost Environment: The Foscagno Rock Glacier Ice Core (Upper Valtellina, Italian Central Alps). <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 108-116.	0.4	25
50	CO2 fluxes among different vegetation types during the growing season in Marguerite Bay (Antarctic) <small>Tj ETQq0 0 0 rgBT /Overlock 10 T</small>	2.5	25
51	Moss survival through in situ cryptobiosis after six centuries of glacier burial. <i>Scientific Reports</i> , 2017, 7, 4438.	1.6	25
52	Is that a relict rock glacier?. <i>Geomorphology</i> , 2019, 330, 177-189.	1.1	24
53	Radiocarbon dating and postglacial evolution, upper Valtellina and Livignese area (Sondrio, Central) <small>Tj ETQq1 1 0.784314 rgBT /Overlock 23</small>	1.5	23
54	Effect of climate and moss vegetation on ground surface temperature and the active layer among different biogeographical regions in Antarctica. <i>Catena</i> , 2020, 190, 104562.	2.2	23

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55	Schmidt Hammer studies in the maritime Antarctic: Application to dating Holocene deglaciation and estimating the effects of macrolichens on rock weathering. <i>Geomorphology</i> , 2012, 155-156, 34-44.	1.1	22
56	Observations on granite weathering phenomena, Mount Keinath, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2002, 13, 231-236.	1.5	21
57	A thin ice layer segregates two distinct fungal communities in Antarctic brines from Tarn Flat (Northern Victoria Land). <i>Scientific Reports</i> , 2018, 8, 6582.	1.6	21
58	Permafrost distribution and rock glaciers in the livigno area (Northern Italy). <i>Permafrost and Periglacial Processes</i> , 1994, 5, 25-36.	1.5	20
59	Lake-ice blisters, terra nova bay area, northern victoria land, antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2009, 91, 99-111.	0.6	20
60	Prokaryotic assemblages within permafrost active layer at Edmonson Point (Northern Victoria Land.) <i>Tj ETQqO O O rgBT /Overlock 10 Tf 5</i>	4.2	20
61	Rapid soil and vegetation changes at regional scale in continental Antarctica. <i>Geoderma</i> , 2021, 394, 115017.	2.3	20
62	Permafrost as a climatic indicator in northern Victoria Land, Antarctica. <i>Annals of Glaciology</i> , 1999, 29, 131-135.	2.8	19
63	The origins of Antarctic rock glaciers: periglacial or glacial features?. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1390-1402.	1.2	18
64	Prokaryotic Abundance and Activity in Permafrost of the Northern Victoria Land and Upper Victoria Valley (Antarctica). <i>Microbial Ecology</i> , 2017, 74, 402-415.	1.4	17
65	Relationships between periglacial features and vegetation development in Victoria Land, continental Antarctica. <i>Antarctic Science</i> , 2010, 22, 703-713.	0.5	16
66	Glacial fluctuations since the "Medieval Warm Period" at Rothera Point (western Antarctic Peninsula). <i>Holocene</i> , 2016, 26, 154-158.	0.9	16
67	The contribution of geoelectrical investigations in the analysis of periglacial and glacial landforms in ice free areas of the northern foothills (northern victoria land, antarctica). <i>Geografiska Annaler, Series A: Physical Geography</i> , 1997, 79, 17-24.	0.6	15
68	An oxygen isotope record from the Foscagno rock-glacier ice core, Upper Valtellina, Italian Central Alps. <i>Holocene</i> , 2007, 17, 1033-1039.	0.9	15
69	Advances in permafrost and periglacial research in Antarctica: A review. <i>Geomorphology</i> , 2012, 155-156, 1-6.	1.1	15
70	Ground surface temperature reconstruction for the last 500 years obtained from permafrost temperatures observed in the SHARE STELVIO Borehole, Italian Alps. <i>Climate of the Past</i> , 2018, 14, 709-724.	1.3	15
71	Soil microbial community structure and enzymatic activity along a plant cover gradient in Victoria Land (continental Antarctica). <i>Geoderma</i> , 2019, 353, 144-151.	2.3	14
72	Cultivable Bacterial Communities in Brines from Perennially Ice-Covered and Pristine Antarctic Lakes: Ecological and Biotechnological Implications. <i>Microorganisms</i> , 2020, 8, 819.	1.6	14

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73	Ground ice in the Northern Foothills, northern Victoria Land, Antarctica. <i>Annals of Glaciology</i> , 2004, 39, 495-500.	2.8	13
74	Needle ice formation, induced frost heave, and frost creep: A case study through photogrammetry at Stelvio Pass (Italian Central Alps). <i>Catena</i> , 2018, 164, 62-70.	2.2	12
75	A new simple topo-climatic model to predict surface displacement in paraglacial and periglacial mountains of the European Alps: The importance of ground heating index and floristic components as ecological indicators. <i>Ecological Indicators</i> , 2021, 120, 106889.	2.6	12
76	The Contribution of Geoelectrical Investigations in the Analysis of Periglacial and Glacial Landforms in Ice Free Areas of the Northern Foothills (Northern Victoria Land, Antarctica). <i>Geografiska Annaler, Series A: Physical Geography</i> , 1997, 79A, 17-24.	0.6	12
77	Effects of active layer seasonal dynamics and plant phenology on CO ₂ land-atmosphere fluxes at polygonal tundra in the High Arctic, Svalbard. <i>Catena</i> , 2019, 174, 142-153.	2.2	11
78	Role of lichens in granite weathering in cold and arid environments of continental Antarctica. <i>Geological Society Special Publication</i> , 2011, 354, 195-204.	0.8	10
79	Intra- and inter-cores fungal diversity suggests interconnection of different habitats in an Antarctic frozen lake (Boulder Clay, Northern Victoria Land). <i>Environmental Microbiology</i> , 2020, 22, 3463-3477.	1.8	10
80	Abiotic factors affecting the bacterial and fungal diversity of permafrost in a rock glacier in the Stelvio Pass (Italian Central Alps). <i>Applied Soil Ecology</i> , 2021, 166, 104079.	2.1	10
81	The development of Antarctic tafoni: Relations between differential weathering rates and spatial distribution of thermal events, salts concentration and mineralogy. <i>Geomorphology</i> , 2021, 373, 107475.	1.1	9
82	Recent thermokarst evolution in the Italian Central Alps. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 299-317.	1.5	9
83	Cryogenic grooves on a granite nunatak, Northern Victoria Land, Antarctica. <i>Norsk Geografisk Tidsskrift</i> , 2002, 56, 112-116.	0.3	8
84	Effects of Heavy Ion Particle Irradiation on Spore Germination of <i>Bacillus</i> spp. from Extremely Hot and Cold Environments. <i>Life</i> , 2020, 10, 264.	1.1	8
85	The Spatio-Temporal Variability of Frost Blisters in a Perennial Frozen Lake along the Antarctic Coast as Indicator of the Groundwater Supply. <i>Remote Sensing</i> , 2021, 13, 435.	1.8	8
86	Prokaryotic Diversity and Metabolically Active Communities in Brines from Two Perennially Ice-Covered Antarctic Lakes. <i>Astrobiology</i> , 2021, 21, 551-565.	1.5	8
87	Small-scale spatial-temporal variability in snow cover and relationships with vegetation and climate in maritime Antarctica. <i>Catena</i> , 2022, 208, 105739.	2.2	7
88	<i>Salix</i> shrub encroachment along a 1000 m elevation gradient triggers a major ecosystem change in the European Alps. <i>Ecography</i> , 2022, 2022, .	2.1	7
89	Reconstruction of the glacial history after the Last Glacial Maximum in the Italian Central Alps using Schmidt's hammer R-values and crystallinity ratio indices of soils. <i>Quaternary International</i> , 2020, 558, 19-27.	0.7	5
90	The use of iron chemical analysis of podzols to date the Late Pleistocene-Holocene deglaciation history of the Central Italian Alps. <i>Journal of Quaternary Science</i> , 2020, 35, 1021-1035.	1.1	5

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91	The prokaryotic community in an extreme Antarctic environment: the brines of Boulder Clay lakes (Northern Victoria Land). <i>Hydrobiologia</i> , 2021, 848, 1837-1857.	1.0	5
92	First Insights into the Microbiology of Three Antarctic Briny Systems of the Northern Victoria Land. <i>Diversity</i> , 2021, 13, 323.	0.7	5
93	Shore Evidences of a High Antarctic Ocean Wave Event: Geomorphology, Event Reconstruction and Coast Dynamics through a Remote Sensing Approach. <i>Remote Sensing</i> , 2021, 13, 518.	1.8	4
94	Soil micromorphology as tool for the past permafrost and paleoclimate reconstruction. <i>Catena</i> , 2021, 207, 105628.	2.2	3
95	The glacial history since the Last Glacial Maximum in the Forni Valley (Italian Central Alps). Reconstruction based on Schmidt's Hammer R-values and crystallinity ratio indices of soils. <i>Geomorphology</i> , 2021, 387, 107765.	1.1	2
96	Investigations of polygonal patterned ground in continuous Antarctic permafrost by means of ground penetrating radar and electrical resistivity tomography: Some unexpected correlations. <i>Permafrost and Periglacial Processes</i> , 0, , .	1.5	2
97	Tâ€RFLP Fingerprinting Analysis of Bacterial Communities in Debris Cones, Northern Victoria Land, Antarctica. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 244-248.	1.5	1
98	Past geomorphic processes: The role of permafrost and periglacial processes in ice-free environments. , 2020, , 125-137.		0
99	Hugh French memorial for <i>Permafrost and Periglacial Processes</i>. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 181-185.	1.5	0
100	The search for brines: GPR markers, proxies, and challenges. , 2020, , .		0