

Carlo Baroni

List of Publications by Year in descending order

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93
papers

3,630
citations

136950

32
h-index

144013

57
g-index

104
all docs

104
docs citations

104
times ranked

4486
citing authors

#	ARTICLE	IF	CITATIONS
1	Historically unprecedented global glacier decline in the early 21st century. <i>Journal of Glaciology</i> , 2015, 61, 745-762.	2.2	561
2	Rates of Evolution in Ancient DNA from Adelie Penguins. <i>Science</i> , 2002, 295, 2270-2273.	12.6	274
3	Abandoned penguin rookeries as Holocene paleoclimatic indicators in Antarctica. <i>Geology</i> , 1994, 22, 23.	4.4	151
4	The Alpine "œlce-man" and Holocene Climatic Change. <i>Quaternary Research</i> , 1996, 46, 78-83.	1.7	111
5	Rapid Response of a Marine Mammal Species to Holocene Climate and Habitat Change. <i>PLoS Genetics</i> , 2009, 5, e1000554.	3.5	92
6	High mitogenomic evolutionary rates and time dependency. <i>Trends in Genetics</i> , 2009, 25, 482-486.	6.7	90
7	Constant Holocene Southern-Ocean 14C reservoir ages and ice-shelf flow rates. <i>Earth and Planetary Science Letters</i> , 2010, 296, 115-123.	4.4	87
8	Aeolian dust in the Talos Dome ice core (East Antarctica, Pacific/Ross Sea sector): Victoria Land <i>versus</i> remote sources over the last two climate cycles. <i>Journal of Quaternary Science</i> , 2010, 25, 1327-1337.	2.1	83
9	Ancient DNA Enables Timing of the Pleistocene Origin and Holocene Expansion of Two Adelie Penguin Lineages in Antarctica. <i>Molecular Biology and Evolution</i> , 2003, 21, 240-248.	8.9	82
10	Mutation and Evolutionary Rates in Ad"lie Penguins from the Antarctic. <i>PLoS Genetics</i> , 2008, 4, e1000209.	3.5	79
11	Holocene relative sea-level history of the Southern Victoria Land Coast, Antarctica. <i>Global and Planetary Change</i> , 2004, 42, 241-263.	3.5	78
12	A new Holocene relative sea-level curve for Terra Nova Bay, Victoria Land, Antarctica. <i>Journal of Quaternary Science</i> , 2004, 19, 377-396.	2.1	77
13	Holocene sea ice variability driven by wind and polynya efficiency in the Ross Sea. <i>Nature Communications</i> , 2017, 8, 1334.	12.8	67
14	Holocene raised beaches at Terra Nova Bay, Victoria Land, Antarctica. <i>Quaternary Research</i> , 1991, 36, 157-177.	1.7	66
15	Potential warm-stage microrefugia for alpine plants: Feedback between geomorphological and biological processes. <i>Ecological Complexity</i> , 2015, 21, 87-99.	2.9	66
16	Mollusca stable isotope record of a core from Lake Frassino, northern Italy: hydrological and climatic changes during the last 14 ka. <i>Holocene</i> , 2006, 16, 827-837.	1.7	63
17	Cenozoic climatic change in Antarctica recorded by volcanic activity and landscape evolution. <i>Geology</i> , 1999, 27, 617.	4.4	58
18	Distribution and behaviour of rock glaciers in the Adamello"Presanella Massif (Italian Alps). <i>Permafrost and Periglacial Processes</i> , 2004, 15, 243-259.	3.4	57

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19	Holocene elephant seal distribution implies warmer-than-present climate in the Ross Sea. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10213-10217.	7.1	54
20	Modern and Holocene aeolian dust variability from Talos Dome (Northern Victoria Land) to the interior of the Antarctic ice sheet. Quaternary Science Reviews, 2013, 64, 76-89.	3.0	54
21	From The Cover: Microevolution and mega-icebergs in the Antarctic. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16717-16722.	7.1	52
22	Interpreting last glacial to Holocene dust changes at Talos Dome (East Antarctica): implications for atmospheric variations from regional to hemispheric scales. Climate of the Past, 2012, 8, 741-750.	3.4	50
23	Decay of a long-term monitored glacier: Careser Glacier (Ortles-Cevedale, European Alps). Cryosphere, 2013, 7, 1819-1838.	3.9	50
24	Fluvial origin of the valley system in northern Victoria Land (Antarctica) from quantitative geomorphic analysis. Bulletin of the Geological Society of America, 2005, 117, 212.	3.3	46
25	Causes of dust size variability in central East Antarctica (Dome B): Atmospheric transport from expanded South American sources during Marine Isotope Stage 2. Quaternary Science Reviews, 2017, 168, 55-68.	3.0	46
26	Holocene glacier variations in the Terra Nova Bay area (Victoria Land, Antarctica). Antarctic Science, 1994, 6, 497-505.	0.9	44
27	From cold to warm-stage refugia for boreo-alpine plants in southern European and Mediterranean mountains: the last chance to survive or an opportunity for speciation?. Biodiversity, 2015, 16, 247-261.	1.1	44
28	Multiple cosmogenic nuclides document complex Pleistocene exposure history of glacial drifts in Terra Nova Bay (northern Victoria Land, Antarctica). Quaternary Research, 2009, 71, 83-92.	1.7	42
29	Limited Pliocene/Pleistocene glaciation in Deep Freeze Range, northern Victoria Land, Antarctica, derived from in situ cosmogenic nuclides. Antarctic Science, 2003, 15, 493-502.	0.9	38
30	Landform "vegetation units for investigating the dynamics and geomorphologic evolution of alpine composite debris cones (Valle dell'Avio, Adamello Group, Italy). Geomorphology, 2007, 84, 59-79.	2.6	38
31	Ice composition evidence of marine ice transfer along the bottom of a small Antarctic Ice Shelf. Geophysical Research Letters, 1991, 18, 849-852.	4.0	35
32	Weakening climatic signal since mid-20th century in European larch tree-ring chronologies at different altitudes from the Adamello-Presanella Massif (Italian Alps). Quaternary Research, 2012, 77, 344-354.	1.7	35
33	Micromorphological evidence of warm-based glacier deposition from the Ricker Hills Tillite (Victoria) Tj ETQq1 1 0.784314 rgBT /Overl	3.0	33
34	Relative sea-level change, Kjove Land, Scoresby Sund, East Greenland: Implications for seasonality in Younger Dryas time. Quaternary Science Reviews, 2008, 27, 2283-2291.	3.0	31
35	Reconstructing fluctuations of la mare glacier (eastern Italian Alps) in the late Holocene: new evidence for a little ice age maximum around 1600 ad. Geografiska Annaler, Series A: Physical Geography, 2014, 96, 287-306.	1.5	31
36	Glacier shrinkage and slope processes create habitat at high elevation and microrefugia across treeline for alpine plants during warm stages. Catena, 2020, 193, 104626.	5.0	30

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37	Stable isotopes reveal Holocene changes in the diet of Adélie penguins in Northern Victoria Land (Ross Sea, Antarctica). <i>Oecologia</i> , 2010, 164, 911-919.	2.0	29
38	Dating late Cenozoic erosional surfaces in Victoria Land, Antarctica, with cosmogenic neon in pyroxenes. <i>Antarctic Science</i> , 2008, 20, 89-98.	0.9	28
39	Surface exposure ages imply multiple low-amplitude Pleistocene variations in East Antarctic Ice Sheet, Ricker Hills, Victoria Land. <i>Antarctic Science</i> , 2009, 21, 59-69.	0.9	28
40	Geomorphological disturbance affects ecological driving forces and plant turnover along an altitudinal stress gradient on alpine slopes. <i>Plant Ecology</i> , 2013, 214, 571-586.	1.6	26
41	Thermomechanical stress-strain numerical modelling of deglaciation since the Last Glacial Maximum in the Adamello Group (Rhaetian Alps, Italy). <i>Geomorphology</i> , 2014, 226, 278-299.	2.6	26
42	Last glacial maximum glaciers in the Northern Apennines reflect primarily the influence of southerly storm-tracks in the western Mediterranean. <i>Quaternary Science Reviews</i> , 2018, 197, 352-367.	3.0	25
43	Holocene dust in East Antarctica: Provenance and variability in time and space. <i>Holocene</i> , 2020, 30, 546-558.	1.7	25
44	Analysis of the mass balance time series of glaciers in the Italian Alps. <i>Cryosphere</i> , 2016, 10, 695-712.	3.9	23
45	A <i>Pinus cembra</i> L. tree-ring record for late spring to late summer temperature in the Rhaetian Alps, Italy. <i>Dendrochronologia</i> , 2019, 53, 22-31.	2.2	23
46	High-resolution analysis of silica and sulphate-rich rock varnishes from Victoria Land (Antarctica). <i>European Journal of Mineralogy</i> , 2007, 19, 381-389.	1.3	22
47	The Ricker Hills Tillite provides evidence of Oligocene warm-based glaciation in Victoria Land, Antarctica. <i>Global and Planetary Change</i> , 2008, 60, 457-470.	3.5	22
48	A Sr-Nd-Hf isotope characterization of dust source areas in Victoria Land and the McMurdo Sound sector of Antarctica. <i>Quaternary Science Reviews</i> , 2016, 141, 26-37.	3.0	22
49	The most extensive Holocene advance in the Stauning Alper, East Greenland, occurred in the Little Ice Age. <i>Polar Research</i> , 2008, 27, 128-134.	1.6	21
50	Floristic patterns, ecological gradients and biodiversity in the composite channels (Central Alps), Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 2	1.2	21
51	Relative sea-level changes, Schuchert Dal, East Greenland, with implications for ice extent in late-glacial and Holocene times. <i>Quaternary Science Reviews</i> , 2010, 29, 3370-3378.	3.0	21
52	Plant Species Patterns and Restoration Perspectives in the Highly Disturbed Environment of the Carrara Marble Quarries (Apuan Alps, Italy). <i>Restoration Ecology</i> , 2011, 19, 32-42.	2.9	21
53	Little Ice Age mapping as a tool for identifying hazard in the paraglacial environment: The case study of Trentino (Eastern Italian Alps). <i>Geomorphology</i> , 2017, 295, 551-562.	2.6	20
54	Holocene Adélie penguin diet in Victoria Land, Antarctica. <i>Polar Biology</i> , 2009, 32, 1077-1086.	1.2	18

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55	Multiple cosmogenic nuclides document the stability of the East Antarctic Ice Sheet in northern Victoria Land since the Late Miocene (5–7 Ma). <i>Quaternary Science Reviews</i> , 2012, 57, 85-94.	3.0	18
56	Ancient population genomics and the study of evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130381.	4.0	18
57	Double response of glaciers in the Upper Peio Valley (Rhaetian Alps, Italy) to the Younger Dryas climatic deterioration. <i>Boreas</i> , 2017, 46, 783-798.	2.4	18
58	Tree-ring-based summer mean temperature variations in the Adamello-Presanella Group (Italian) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	3.4	17
59	Adelie penguin dietary remains reveal Holocene environmental changes in the western Ross Sea (Antarctica). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 395, 21-28.	2.3	17
60	Decoupled kinematics of two neighbouring permafrost creeping landforms in the Eastern Italian Alps. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2703-2719.	2.5	17
61	Human-induced hazardous debris flows in Carrara marble basins (Tuscany, Italy). , 2000, 25, 93-103.		16
62	Adelie penguins and temperature changes in Antarctica: a long-term view. <i>Integrative Zoology</i> , 2012, 7, 113-120.	2.6	15
63	Last Lateglacial glacier advance in the Gran Paradiso Group reveals relatively drier climatic conditions established in the Western Alps since at least the Younger Dryas. <i>Quaternary Science Reviews</i> , 2021, 255, 106815.	3.0	15
64	Regionalization of the Atmospheric Dust Cycle on the Periphery of the East Antarctic Ice Sheet Since the Last Glacial Maximum. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3540-3554.	2.5	14
65	Antarctic geomorphological and glaciological 1 : 250 000 map series: Mount Murchison quadrangle, northern Victoria Land. Explanatory notes. <i>Annals of Glaciology</i> , 2004, 39, 256-264.	1.4	13
66	Multispecies dendroclimatic reconstructions of summer temperature in the European Alps enhanced by trees highly sensitive to temperature. <i>Climatic Change</i> , 2016, 137, 275-291.	3.6	13
67	Climate signals in a multispecies tree-ring network from central and southern Italy and reconstruction of the late summer temperatures since the early 1700s. <i>Climate of the Past</i> , 2017, 13, 1451-1471.	3.4	13
68	Mid-Holocene relative sea-level changes along Atlantic Patagonia: New data from Camarones, Chubut, Argentina. <i>Holocene</i> , 2018, 28, 56-64.	1.7	11
69	Rapid increase in southern elephant seal genetic diversity after a founder event. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20133078.	2.6	10
70	Mummified and skeletal southern elephant seals (<i>Mirounga leonina</i>) from the Victoria Land Coast, Ross Sea, Antarctica. <i>Marine Mammal Science</i> , 2019, 35, 934-956.	1.8	8
71	Tree-ring-based reconstruction of larch budmoth outbreaks in the Central Italian Alps since 1774 CE. <i>IForest</i> , 2019, 12, 289-296.	1.4	8
72	Mid-Holocene thinning of David Glacier, Antarctica: chronology and controls. <i>Cryosphere</i> , 2021, 15, 5447-5471.	3.9	8

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73	GPR versus Geoarchaeological Findings in a Complex Archaeological Site (Badia Pozzeveri, Italy). <i>Archaeological Prospection</i> , 2017, 24, 141-156.	2.2	7
74	Insights into the Holocene environmental setting of Terra Nova Bay region (Ross Sea, Antarctica) from oxygen isotope geochemistry of Ad�lie penguin eggshells. <i>Holocene</i> , 2012, 22, 63-69.	1.7	6
75	Neutron activation analysis on sediments from Victoria Land, Antarctica: multi-elemental characterization of potential atmospheric dust sources. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 1615-1623.	1.5	5
76	Geophysical signature of a World War I tunnel-like anomaly in the Forni Glacier (Punta Linke, Italian) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	2.2	4
77	<i>Pinus cembra</i> L. tree-ring data as a proxy for summer mass-balance variability of the Careser Glacier (Italian Rhaetian Alps). <i>Journal of Glaciology</i> , 2020, 66, 714-726.	2.2	4
78	Vegetation Analysis on Composite Debris Cones. <i>Advances in Global Change Research</i> , 2013, , 187-201.	1.6	4
79	Pre-LGM open-water conditions south of the Drygalski Ice Tongue, Ross Sea, Antarctica. <i>Antarctic Science</i> , 2007, 19, 373-377.	0.9	3
80	Insight Into Provenance and Variability of Atmospheric Dust in Antarctic Ice Cores During the Late Pleistocene From Magnetic Measurements. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	3
81	The Adamello-Presanella and Brenta Massifs, Central Alps: Contrasting High-Mountain Landscapes and Landforms. <i>World Geomorphological Landscapes</i> , 2017, , 101-112.	0.3	3
82	A long-term chronology of <i>Pinus pinea</i> L. from Parco della Versiliana (Pietrasanta, Italy) derived from treefall induced by a windstorm on March 4th-5th, 2015. <i>Dendrochronologia</i> , 2020, 62, 125710.	2.2	2
83	Numerical modelling of geothermal heat flux and ice velocity influencing the thermal conditions of the Priestley Glacier trough (northern Victoria Land, Antarctica). <i>Geomorphology</i> , 2021, 394, 107959.	2.6	2
84	Lake Garda: An Outstanding Archive of Quaternary Geomorphological Evolution. <i>World Geomorphological Landscapes</i> , 2017, , 169-179.	0.3	2
85	Geophysical Imaging of the WWI Archeological Site of Linke Peak (Forni Glacier, Italian Central Alps). , 2015, , .		2
86	The occupation history of the longest-dwelling Ad�lie penguin colony reflects Holocene climatic and environmental changes in the Ross Sea, Antarctica. <i>Quaternary Science Reviews</i> , 2022, 284, 107494.	3.0	2
87	Challenges in relative sea-level change assessment highlighted through a case study: The central coast of Atlantic Patagonia. <i>Global and Planetary Change</i> , 2019, 182, 103008.	3.5	1
88	High-resolution Seismic Imaging of the Pian di Neve Glacier on the Adamello Massif (Italy). , 2015, , .		1
89	Geochemical characteristics of the infilling of ground wedges at Puerto Deseado (Santa Cruz,) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5</i>	0.5	1
90	Penguin, A Macintosh Application for Entry and Presentation of Radiocarbon-Dated Samples. <i>Radiocarbon</i> , 1997, 39, 61-65.	1.8	0

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91	8.26 Climate Change Impacts on Cold Climates. , 2013, , 430-459.		0
92	Chemical and Lead Isotope characterisation of First World War shrapnel balls and bullets used on the Alpine Austrianâ€“Italian Front. Scientia Militaria - South African Journal of Military Studies, 2018, 46, .	0.1	0
93	Il segnale climatico e le sue variazioni negli anelli di accrescimento degli alberi da siti estremi al contorno della regione mediterranea. Rendiconti Online Societa Geologica Italiana, 2012, , 24-28.	0.3	0