

Claire Waelbroeck

List of Publications by Year in descending order

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89
papers

7,850
citations

57631

44
h-index

51492

86
g-index

94
all docs

94
docs citations

94
times ranked

6604
citing authors

#	ARTICLE	IF	CITATIONS
1	Sea-level and deep water temperature changes derived from benthic foraminifera isotopic records. <i>Quaternary Science Reviews</i> , 2002, 21, 295-305.	1.4	1,823
2	Ventilation of the Deep Southern Ocean and Deglacial CO ₂ Rise. <i>Science</i> , 2010, 328, 1147-1151.	6.0	420
3	The EDC3 chronology for the EPICA Dome C ice core. <i>Climate of the Past</i> , 2007, 3, 485-497.	1.3	396
4	Reconstruction of sea-surface temperatures from assemblages of planktonic foraminifera: multi-technique approach based on geographically constrained calibration data sets and its application to glacial Atlantic and Pacific Oceans. <i>Quaternary Science Reviews</i> , 2005, 24, 951-998.	1.4	367
5	The timing of the last deglaciation in North Atlantic climate records. <i>Nature</i> , 2001, 412, 724-727.	13.7	288
6	Consistent dating for Antarctic and Greenland ice cores. <i>Quaternary Science Reviews</i> , 2010, 29, 8-20.	1.4	259
7	Multiproxy approach for the reconstruction of the glacial ocean surface (MARGO). <i>Quaternary Science Reviews</i> , 2005, 24, 813-819.	1.4	233
8	Marine isotope stage 3 sea level fluctuations: Data synthesis and new outlook. <i>Reviews of Geophysics</i> , 2008, 46, .	9.0	229
9	Constraints on the ocean oxygen isotopic enrichment between the Last Glacial Maximum and the Holocene: Paleoceanographic implications. <i>Quaternary Science Reviews</i> , 2002, 21, 315-330.	1.4	162
10	Climatic interpretation of the recently extended Vostok ice records. <i>Climate Dynamics</i> , 1996, 12, 513-521.	1.7	149
11	Temporal and spatial structure of multi-millennial temperature changes at high latitudes during the Last Interglacial. <i>Quaternary Science Reviews</i> , 2014, 103, 116-133.	1.4	146
12	Influence of Bering Strait flow and North Atlantic circulation on glacial sea-level changes. <i>Nature Geoscience</i> , 2010, 3, 118-121.	5.4	140
13	A comparison of PMIP2 model simulations and the MARGO proxy reconstruction for tropical sea surface temperatures at last glacial maximum. <i>Climate Dynamics</i> , 2009, 32, 799-815.	1.7	126
14	Sequence of events from the onset to the demise of the Last Interglacial: Evaluating strengths and limitations of chronologies used in climatic archives. <i>Quaternary Science Reviews</i> , 2015, 129, 1-36.	1.4	126
15	Improving past sea surface temperature estimates based on planktonic fossil faunas. <i>Paleoceanography</i> , 1998, 13, 272-283.	3.0	125
16	Biological and physical controls in the Southern Ocean on past millennial-scale atmospheric CO ₂ changes. <i>Nature Communications</i> , 2016, 7, 11539.	5.8	102
17	Persistent influence of ice sheet melting on high northern latitude climate during the early Last Interglacial. <i>Climate of the Past</i> , 2012, 8, 483-507.	1.3	91
18	Comparison of statistical and artificial neural network techniques for estimating past sea surface temperatures from planktonic foraminifer census data. <i>Paleoceanography</i> , 2001, 16, 520-530.	3.0	87

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19	Radiocarbon evidence for alternating northern and southern sources of ventilation of the deep Atlantic carbon pool during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5480-5484.	3.3	87
20	The timing of deglacial circulation changes in the Atlantic. <i>Paleoceanography</i> , 2011, 26, .	3.0	83
21	Dating the Vostok ice core by an inverse method. <i>Journal of Geophysical Research</i> , 2001, 106, 31837-31851.	3.3	79
22	Low-latitude hydrological cycle and rapid climate changes during the last deglaciation. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	79
23	Evidence for northward expansion of Antarctic Bottom Water mass in the Southern Ocean during the last glacial inception. <i>Paleoceanography</i> , 2009, 24, .	3.0	79
24	Search for Supernova-Produced ^{60}Fe in a Marine Sediment. <i>Physical Review Letters</i> , 2008, 101, 121101.	2.9	78
25	Predicted bounds on peak global mean sea level during marine isotope stages 5a and 5c. <i>Quaternary Science Reviews</i> , 2017, 163, 193-208.	1.4	78
26	The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data. <i>Chemical Geology</i> , 2017, 457, 131-148.	1.4	78
27	The impact of permafrost thawing on the carbon dynamics of tundra. <i>Geophysical Research Letters</i> , 1997, 24, 229-232.	1.5	75
28	Transferring radiometric dating of the last interglacial sea level high stand to marine and ice core records. <i>Earth and Planetary Science Letters</i> , 2008, 265, 183-194.	1.8	75
29	A comparison of the Vostok ice deuterium record and series from Southern Ocean core MD 88-770 over the last two glacial-interglacial cycles. <i>Climate Dynamics</i> , 1995, 12, 113-123.	1.7	74
30	A 450-kyr record of hydrological conditions on the western Agulhas Bank Slope, south of Africa. <i>Marine Geology</i> , 2002, 180, 183-201.	0.9	74
31	A global compilation of late Holocene planktonic foraminiferal $\delta^{18}\text{O}$: relationship between surface water temperature and $\delta^{18}\text{O}$. <i>Quaternary Science Reviews</i> , 2005, 24, 853-868.	1.4	74
32	Abrupt change of Antarctic moisture origin at the end of Termination II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12091-12094.	3.3	71
33	Updated calibration of the clumped isotope thermometer in planktonic and benthic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 1-16.	1.6	66
34	Climate-soil processes in the presence of permafrost: a systems modelling approach. <i>Ecological Modelling</i> , 1993, 69, 185-225.	1.2	64
35	North Atlantic versus Southern Ocean contributions to a deglacial surge in deep ocean ventilation. <i>Geology</i> , 2013, 41, 667-670.	2.0	64
36	Abrupt changes in the southern extent of North Atlantic Deep Water during Dansgaard-Oeschger events. <i>Nature Geoscience</i> , 2015, 8, 950-954.	5.4	63

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37	Calibration of the carbon isotope composition ($\delta^{13}\text{C}$) of benthic foraminifera. <i>Paleoceanography</i> , 2017, 32, 512-530.	3.0	63
38	Consistently dated Atlantic sediment cores over the last 40 thousand years. <i>Scientific Data</i> , 2019, 6, 165.	2.4	63
39	Distant origin of circulation changes in the Indian Ocean during the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2006, 243, 244-251.	1.8	58
40	Atmospheric oxygen 18 and sea-level changes. <i>Quaternary Science Reviews</i> , 2002, 21, 307-314.	1.4	57
41	Temporal variability of the surface and deep waters of the North West Atlantic Ocean at orbital and millennial scales. <i>Geophysical Monograph Series</i> , 1999, , 77-98.	0.1	54
42	Evolution of South Atlantic density and chemical stratification across the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 514-519.	3.3	53
43	Estimating glacial western Pacific sea-surface temperature: methodological overview and data compilation of surface sediment planktic foraminifer faunas. <i>Quaternary Science Reviews</i> , 2005, 24, 1049-1062.	1.4	52
44	Changes in deep Pacific temperature during the mid-Pleistocene transition and Quaternary. <i>Quaternary Science Reviews</i> , 2010, 29, 170-181.	1.4	47
45	Changes in deep water hydrology during the Last Deglaciation. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 919-927.	0.4	40
46	Carbon isotope offsets between benthic foraminifer species of the genus <i>Cibicides</i> (<i>Cibicidoides</i>) in the glacial sub-Antarctic Atlantic. <i>Paleoceanography</i> , 2016, 31, 1583-1602.	3.0	39
47	Atlantic Ocean circulation changes preceded millennial tropical South America rainfall events during the last glacial. <i>Geophysical Research Letters</i> , 2015, 42, 411-418.	1.5	38
48	Radiocarbon evidence for enhanced respired carbon storage in the Atlantic at the Last Glacial Maximum. <i>Nature Communications</i> , 2016, 7, 11998.	5.8	34
49	Late slowdown of the Atlantic Meridional Overturning Circulation during the Last Glacial Inception: New constraints from sedimentary ($^{231}\text{Pa}/^{230}\text{Th}$). <i>Earth and Planetary Science Letters</i> , 2010, 289, 520-529.	1.8	31
50	Oxygen stable isotopes during the Last Glacial Maximum climate: perspectives from data-model (<i>LOVECLIM) comparison. <i>Climate of the Past</i> , 2014, 10, 1939-1955.	1.3	31
51	Hydrographic variations in deep ocean temperature over the mid-Pleistocene transition. <i>Quaternary Science Reviews</i> , 2014, 88, 147-158.	1.4	31
52	The "MIS 11 paradox" and ocean circulation: Role of millennial scale events. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 258-268.	1.8	29
53	Mg/Ca thermometry in planktic foraminifera: Improving paleotemperature estimations for <i>G. bulloides</i> and <i>N. pachyderma</i> left. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1249-1264.	1.0	28
54	Impact of oceanic processes on the carbon cycle during the last termination. <i>Climate of the Past</i> , 2012, 8, 149-170.	1.3	26

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55	The North Atlantic Glacial Eastern Boundary Current as a Key Driver for Iceâ€Sheetâ€™ AMOC Interactions and Climate Instability. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004068.	1.3	25
56	Response of South Atlantic deep waters to deglacial warming during Terminations V and I. <i>Earth and Planetary Science Letters</i> , 2010, 298, 323-333.	1.8	24
57	Climate of the last million years: new insights from EPICA and other records. <i>Quaternary Science Reviews</i> , 2010, 29, 1-7.	1.4	24
58	LGM hosing approach to Heinrich Event 1: results and perspectives from dataâ€™model integration using water isotopes. <i>Quaternary Science Reviews</i> , 2014, 106, 247-261.	1.4	24
59	Implication of methodological uncertainties for mid-Holocene sea surface temperature reconstructions. <i>Climate of the Past</i> , 2014, 10, 2237-2252.	1.3	23
60	Contribution of seasonal sub-Antarctic surface water variability to millennial-scale changes in atmospheric CO ₂ over the last deglaciation and Marine Isotope Stage 3. <i>Earth and Planetary Science Letters</i> , 2015, 411, 87-99.	1.8	23
61	Changes in the geometry and strength of the Atlantic meridional overturning circulation during the last glacial (20â€™50â€™ka). <i>Climate of the Past</i> , 2016, 12, 2061-2075.	1.3	22
62	Age and duration of Laschamp and Iceland Basin geomagnetic excursions in the South Atlantic Ocean. <i>Quaternary Science Reviews</i> , 2017, 167, 1-13.	1.4	21
63	Relative timing of precipitation and ocean circulation changes in the western equatorial Atlantic over the last 45â€™kyr. <i>Climate of the Past</i> , 2018, 14, 1315-1330.	1.3	20
64	Southern Ocean link between changes in atmospheric CO ₂ levels and northern-hemisphere climate anomalies during the last two glacial periods. <i>Quaternary Science Reviews</i> , 2020, 230, 106067.	1.4	20
65	Refining benthic foraminiferal Mg/Caâ€™temperature calibrations using coreâ€™tops from the western tropical Atlantic: Implication for paleotemperature estimation. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 929-946.	1.0	19
66	Atlantic Ocean Ventilation Changes Across the Last Deglaciation and Their Carbon Cycle Implications. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004074.	1.3	19
67	A search for supernova produced ²⁴⁴ Pu in a marine sediment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 259, 673-676.	0.6	18
68	Downcore Variations of Sedimentary Detrital (²³⁸ U/ ²³² Th) Ratio: Implications on the Use of ²³⁰ Th/ _{xs} and ²³¹ Pa/ _{xs} to Reconstruct Sediment Flux and Ocean Circulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2560-2573.	1.0	16
69	Sensitivity analysis of a model of CO ₂ exchange in tundra ecosystems by the adjoint method. <i>Journal of Geophysical Research</i> , 1995, 100, 2801.	3.3	15
70	FAME (v1.0): a simple module to simulate the effect of planktonic foraminifer species-specific habitat on their oxygen isotopic content. <i>Geoscientific Model Development</i> , 2018, 11, 3587-3603.	1.3	15
71	Benthic foraminiferal abundance and stable isotope changes in the Indian Ocean sector of the Southern Ocean during the last 20 kyr: Paleooceanographic implications. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 297, 537-548.	1.0	14
72	Live (Stained) Benthic Foraminifera Off Walvis Bay, Namibia: A Deep-Sea Ecosystem under the Influence of Bottom Nepheloid Layers. <i>Journal of Foraminiferal Research</i> , 2013, 43, 55-71.	0.1	13

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73	Constraints on surface seawater oxygen isotope change between the Last Glacial Maximum and the Late Holocene. <i>Quaternary Science Reviews</i> , 2014, 105, 102-111.	1.4	12
74	Radiocarbon Dating of Small-sized Foraminifer Samples: Insights into Marine sediment Mixing. <i>Radiocarbon</i> , 2020, 62, 313-333.	0.8	12
75	Dansgaard-Oeschger and Heinrich event temperature anomalies in the North Atlantic set by sea ice, frontal position and thermocline structure. <i>Quaternary Science Reviews</i> , 2022, 289, 107599.	1.4	12
76	On the limits of Antarctic and marine climate records synchronization: Lag estimates during marine isotopic stages 5d and 5c. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	9
77	Improving North Atlantic Marine Core Chronologies Using ²³⁰ Th Normalization. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1057-1073.	1.3	9
78	On the Movements of the North Atlantic Subpolar Front in the Preinstrumental Past*. <i>Journal of Climate</i> , 2016, 29, 1545-1571.	1.2	7
79	Water and carbon stable isotope records from natural archives: a new database and interactive online platform for data browsing, visualizing and downloading. <i>Climate of the Past</i> , 2016, 12, 1693-1719.	1.3	6
80	Modelling the impact of biogenic particle flux intensity and composition on sedimentary Pa/Th. <i>Quaternary Science Reviews</i> , 2020, 240, 106394.	1.4	5
81	A proxy modelling approach to assess the potential of extracting ENSO signal from tropical Pacific planktonic foraminifera. <i>Climate of the Past</i> , 2020, 16, 885-910.	1.3	5
82	Carbon isotopes and Pa ²³¹ Th response to forced circulation changes: a model perspective. <i>Climate of the Past</i> , 2020, 16, 867-883.	1.3	5
83	Radiogenic isotopic and clay mineralogical signatures of terrigenous particles as water-mass tracers: New insights into South Atlantic deep circulation during the last termination. <i>Quaternary Science Reviews</i> , 2020, 228, 106089.	1.4	4
84	Rapid reconstruction of paleoenvironmental features using a new multiplatform program. <i>Micropaleontology</i> , 2004, 50, 391.	0.3	3
85	Imprint of seasonality changes on fluvio-glacial dynamics across Heinrich Stadial 1 (NE Atlantic) Tj ETQq1 1 0.784314 rgBT /Overlock 1.6 3		
86	Ocean Productivity in the Gulf of Cadiz Over the Last 50 kyr. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	1.3	3
87	Deep sea records of past climatic variability. <i>European Physical Journal Special Topics</i> , 2002, 12, 73-84.	0.2	2
88	Comment on "A High-Resolution Sea-Surface Temperature Record from the tropical South China Sea (16,500-3000 yr B.P.)" by Steinke et al.. <i>Quaternary Research</i> , 2002, 57, 432-433.	1.0	2
89	A Simplified Palaeoceanography Archiving System (PARIS) and GUI for Storage and Visualisation of Marine Sediment Core Proxy Data vs Age and Depth. <i>Open Quaternary</i> , 2022, 8, .	0.5	1