

# Katrin J Meissner

## List of Publications by Year in descending order

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77  
papers

4,025  
citations

186265

28  
h-index

128289

60  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4388  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in atmospheric CO <sub>2</sub> concentration over the past two millennia: contribution of climate variability, land-use and Southern Ocean dynamics. <i>Climate Dynamics</i> , 2022, 58, 2957-2979.	3.8	3
2	Marine carbon cycle response to a warmer Southern Ocean: the case of the last interglacial. <i>Climate of the Past</i> , 2022, 18, 507-523.	3.4	3
3	Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. <i>Climate of the Past</i> , 2022, 18, 845-862.	3.4	7
4	ACCESS datasets for CMIP6: methodology and idealised experiments. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2022, 72, 93-116.	1.8	9
5	Lower oceanic $\delta^{13}C$ during the last interglacial period compared to the Holocene. <i>Climate of the Past</i> , 2021, 17, 507-528.	3.4	3
6	Carbon cycle dynamics during episodes of rapid climate change. <i>Environmental Research Letters</i> , 2021, 16, 040201.	5.2	1
7	Projected Changes to Australian Marine Heatwaves. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091323.	4.0	11
8	Magnitude of the 8.2ka event freshwater forcing based on stable isotope modelling and comparison to future Greenland melting. <i>Scientific Reports</i> , 2021, 11, 5473.	3.3	10
9	Land-sea temperature contrasts at the Last Interglacial and their impact on the hydrological cycle. <i>Climate of the Past</i> , 2021, 17, 869-885.	3.4	12
10	A multimodel investigation of atmospheric mechanisms for driving Arctic amplification in warmer climates. <i>Journal of Climate</i> , 2021, , 1-55.	3.2	2
11	Southern Ocean Ecosystem Response to Last Glacial Maximum Boundary Conditions. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004075.	2.9	4
12	A multi-model CMIP6-PMIP4 study of Arctic sea ice at 127ka: sea ice data compilation and model differences. <i>Climate of the Past</i> , 2021, 17, 37-62.	3.4	29
13	Large-scale features of Last Interglacial climate: results from evaluating the $\delta^{13}C$ simulations for the Coupled Model Intercomparison Project (CMIP6) Paleoclimate Modeling Intercomparison Project (PMIP4). <i>Climate of the Past</i> , 2021, 17, 63-94.	3.4	76
14	Connections of climate change and variability to large and extreme forest fires in southeast Australia. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	341
15	Explicit silicate cycling in the Kiel Marine Biogeochemistry Model version 3 (KMBM3) embedded in the UVic ESCM version 2.9. <i>Geoscientific Model Development</i> , 2021, 14, 7255-7285.	3.6	4
16	Drivers of the evolution and amplitude of African Humid Periods. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	15
17	Freshwater forcing control on early-Holocene South American monsoon. <i>Quaternary Science Reviews</i> , 2020, 245, 106498.	3.0	5
18	Indian Ocean warming modulates global atmospheric circulation trends. <i>Climate Dynamics</i> , 2020, 55, 2053-2073.	3.8	28

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19	Modelling the impact of biogenic particle flux intensity and composition on sedimentary Pa/Th. <i>Quaternary Science Reviews</i> , 2020, 240, 106394.	3.0	5
20	Evaluation of the University of Victoria Earth System Climate Model version 2.10 (UVic ESCM 2.10). <i>Geoscientific Model Development</i> , 2020, 13, 4183-4204.	3.6	23
21	Mechanisms of millennial-scale atmospheric CO <sub>2</sub> change in numerical model simulations. <i>Quaternary Science Reviews</i> , 2019, 220, 30-74.	3.0	46
22	Evaluating the Extent of North Atlantic Deep Water and the Mean Atlantic $\delta^{13}C$ From Statistical Reconstructions. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1022-1036.	2.9	2
23	Phytoplankton calcifiers control nitrate cycling and the pace of transition in warming icehouse and cooling greenhouse climates. <i>Biogeosciences</i> , 2019, 16, 1019-1034.	3.3	9
24	Assessing the Spatial Origin of Meltwater Pulse 1A Using Oxygen Isotope Fingerprinting. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2031-2046.	2.9	5
25	Intercomparison of Antarctic ice-shelf, ocean, and sea-ice interactions simulated by MetROMS-iceshelf and FESOM 1.4. <i>Geoscientific Model Development</i> , 2018, 11, 1257-1292.	3.6	30
26	Asymmetric dynamical ocean responses in warming icehouse and cooling greenhouse climates. <i>Environmental Research Letters</i> , 2018, 13, 125011.	5.2	6
27	Southern Hemisphere westerlies as a driver of the early deglacial atmospheric CO <sub>2</sub> rise. <i>Nature Communications</i> , 2018, 9, 2503.	12.8	107
28	Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. <i>Nature Geoscience</i> , 2018, 11, 474-485.	12.9	166
29	Future Projections of Antarctic Ice Shelf Melting Based on CMIP5 Scenarios. <i>Journal of Climate</i> , 2018, 31, 5243-5261.	3.2	62
30	Exploring the oxygen isotope fingerprint of Dansgaard-Oeschger variability and Heinrich events. <i>Quaternary Science Reviews</i> , 2017, 159, 1-14.	3.0	17
31	Volcanism caused ancient global warming. <i>Nature</i> , 2017, 548, 531-533.	27.8	1
32	Spurious sea ice formation caused by oscillatory ocean tracer advection schemes. <i>Ocean Modelling</i> , 2017, 116, 108-117.	2.4	17
33	Poorly ventilated deep ocean at the Last Glacial Maximum inferred from carbon isotopes: A data-model comparison study. <i>Paleoceanography</i> , 2017, 32, 2-17.	3.0	85
34	A model study of warming-induced phosphorus-oxygen feedbacks in open-ocean oxygen minimum zones on millennial timescales. <i>Earth System Dynamics</i> , 2017, 8, 357-367.	7.1	17
35	The Australian National Pollutant Inventory Fails to Fulfil Its Legislated Goals. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 478.	2.6	12
36	Primary production sensitivity to phytoplankton light attenuation parameter increases with transient forcing. <i>Biogeosciences</i> , 2017, 14, 4767-4780.	3.3	8

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37	Competition between ocean carbon pumps in simulations with varying Southern Hemisphere westerly wind forcing. <i>Climate Dynamics</i> , 2016, 46, 3463-3480.	3.8	5
38	Explicit Planktic Calcifiers in the University of Victoria Earth System Climate Model, Version 2.9. <i>Atmosphere - Ocean</i> , 2015, 53, 332-350.	1.6	18
39	Impact of oceanic circulation changes on atmospheric $^{13}\text{C}$ in $\text{CO}_2$ . <i>Global Biogeochemical Cycles</i> , 2015, 29, 1944-1961.	4.9	35
40	Quantification of factors impacting seawater and calcite $\delta^{18}\text{O}$ during Heinrich Stadials 1 and 4. <i>Paleoceanography</i> , 2015, 30, 895-911.	3.0	9
41	Potential increasing dominance of heterotrophy in the global ocean. <i>Environmental Research Letters</i> , 2015, 10, 074009.	5.2	21
42	Sudden spreading of corrosive bottom water during the Palaeocene–Eocene Thermal Maximum. <i>Nature Geoscience</i> , 2015, 8, 458-461.	12.9	25
43	The dynamics of cold events. <i>Nature Geoscience</i> , 2015, 8, 904-906.	12.9	20
44	Testing the sensitivity of the East Antarctic Ice Sheet to Southern Ocean dynamics: past changes and future implications. <i>Journal of Quaternary Science</i> , 2014, 29, 91-98.	2.1	46
45	The Paleocene–Eocene Thermal Maximum: How much carbon is enough?. <i>Paleoceanography</i> , 2014, 29, 946-963.	3.0	27
46	The dynamics of global change at the Paleocene-Eocene thermal maximum: A data-model comparison. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3830-3848.	2.5	14
47	Atlantic-Pacific seesaw and its role in outgassing $\text{CO}_2$ during Heinrich events. <i>Paleoceanography</i> , 2014, 29, 58-70.	3.0	81
48	Sensitivity of the oceanic carbon reservoir to tropical surface wind stress variations. <i>Geophysical Research Letters</i> , 2013, 40, 2218-2223.	4.0	4
49	Impact of sea ice variability on the oxygen isotope content of seawater under glacial and interglacial conditions. <i>Paleoceanography</i> , 2013, 28, 388-400.	3.0	19
50	Carbon-nitrogen feedbacks in the UVic ESCM. <i>Geoscientific Model Development</i> , 2012, 5, 1137-1160.	3.6	27
51	Carbon Dioxide Emission Pathways Avoiding Dangerous Ocean Impacts. <i>Weather, Climate, and Society</i> , 2012, 4, 212-229.	1.1	3
52	Modelling Oxygen Isotopes in the University of Victoria Earth System Climate Model for Pre-industrial and Last Glacial Maximum Conditions. <i>Atmosphere - Ocean</i> , 2012, 50, 447-465.	1.6	18
53	The importance of the terrestrial weathering feedback for multimillennial coral reef habitat recovery. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	34
54	Oceanic carbon and water masses during the Mystery Interval: A model–data comparison study. <i>Paleoceanography</i> , 2012, 27, .	3.0	18

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55	Large-scale stress factors affecting coral reefs: open ocean sea surface temperature and surface seawater aragonite saturation over the next 400 years. <i>Coral Reefs</i> , 2012, 31, 309-319.	2.2	52
56	Climate simulations of the Permian–Triassic boundary: Ocean acidification and the extinction event. <i>Paleoceanography</i> , 2011, 26, .	3.0	27
57	Reduction in areal extent of high-latitude wetlands in response to permafrost thaw. <i>Nature Geoscience</i> , 2011, 4, 444-448.	12.9	188
58	Surface Melting over Ice Shelves and Ice Sheets as Assessed from Modeled Surface Air Temperatures. <i>Journal of Climate</i> , 2010, 23, 1929-1936.	3.2	10
59	On the control of glacial–interglacial atmospheric CO <sub>2</sub> variations by the Southern Hemisphere westerlies. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	37
60	Lifetime of Anthropogenic Climate Change: Millennial Time Scales of Potential CO <sub>2</sub> and Surface Temperature Perturbations. <i>Journal of Climate</i> , 2009, 22, 2501-2511.	3.2	292
61	Paleoceanography. <i>Encyclopedia of Earth Sciences Series</i> , 2009, , 690-696.	0.1	1
62	CO <sub>2</sub> threshold for millennial-scale oscillations in the climate system: implications for global warming scenarios. <i>Climate Dynamics</i> , 2008, 30, 161-174.	3.8	31
63	Geochemical proxies of North American freshwater routing during the Younger Dryas cold event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6556-6561.	7.1	162
64	Conclusion Reconstructing and Modeling Past Oceans. <i>Developments in Marine Geology</i> , 2007, 1, 799-811.	0.4	0
65	Mechanisms for an ~47-kyr climate and sea-level oscillation during marine isotope stage 3. <i>Geophysical Monograph Series</i> , 2007, , 209-246.	0.1	47
66	Younger Dryas: A data to model comparison to constrain the strength of the overturning circulation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	27
67	Carbon storage on exposed continental shelves during the glacial-interglacial transition. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	18
68	Impact of floods versus routing events on the thermohaline circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	47
69	Terrestrial Carbon Cycle Dynamics under Recent and Future Climate Change. <i>Journal of Climate</i> , 2005, 18, 1609-1628.	3.2	86
70	Denitrification under glacial and interglacial conditions: A physical approach. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	51
71	Natural and anthropogenic climate change: incorporating historical land cover change, vegetation dynamics and the global carbon cycle. <i>Climate Dynamics</i> , 2004, 22, 461-479.	3.8	218
72	The role of land surface dynamics in glacial inception: a study with the UVic Earth System Model. <i>Climate Dynamics</i> , 2003, 21, 515-537.	3.8	309

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73	Radiative forcing of climate by historical land cover change. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	99
74	Ventilation of the North Atlantic Ocean during the Last Glacial Maximum: A comparison between simulated and observed radiocarbon ages. <i>Paleoceanography</i> , 2003, 18, n/a-n/a.	3.0	51
75	Forcing of the deep ocean circulation in simulations of the Last Glacial Maximum. <i>Paleoceanography</i> , 2002, 17, 5-1-5-15.	3.0	45
76	Simulations of Heinrich Events in a coupled ocean-atmosphere-sea ice model. <i>Geophysical Research Letters</i> , 2002, 29, 16-1-16-3.	4.0	13
77	The UVic earth system climate model: Model description, climatology, and applications to past, present and future climates. <i>Atmosphere - Ocean</i> , 2001, 39, 361-428.	1.6	604