Katrin J Meissner

List of Publications by Year in descending order

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186265 128289 4,025 77 28 60 citations g-index h-index papers 85 85 85 4388 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The UVic earth system climate model: Model description, climatology, and applications to past, present and future climates. Atmosphere - Ocean, 2001, 39, 361-428.	1.6	604
2	Connections of climate change and variability to large and extreme forest fires in southeast Australia. Communications Earth $\&$ Environment, 2021, 2, .	6.8	341
3	The role of land surface dynamics in glacial inception: a study with the UVic Earth System Model. Climate Dynamics, 2003, 21, 515-537.	3 . 8	309
4	Lifetime of Anthropogenic Climate Change: Millennial Time Scales of Potential CO2 and Surface Temperature Perturbations. Journal of Climate, 2009, 22, 2501-2511.	3. 2	292
5	Natural and anthropogenic climate change: incorporating historical land cover change, vegetation dynamics and the global carbon cycle. Climate Dynamics, 2004, 22, 461-479.	3 . 8	218
6	Reduction in areal extent of high-latitude wetlands in response to permafrost thaw. Nature Geoscience, 2011, 4, 444-448.	12.9	188
7	Palaeoclimate constraints on the impact of 2 \hat{A}° C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	12.9	166
8	Geochemical proxies of North American freshwater routing during the Younger Dryas cold event. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6556-6561.	7.1	162
9	Southern Hemisphere westerlies as a driver of the early deglacial atmospheric CO2 rise. Nature Communications, 2018, 9, 2503.	12.8	107
10	Radiative forcing of climate by historical land cover change. Geophysical Research Letters, 2003, 30, .	4.0	99
11	Terrestrial Carbon Cycle Dynamics under Recent and Future Climate Change. Journal of Climate, 2005, 18, 1609-1628.	3.2	86
12	Poorly ventilated deep ocean at the Last Glacial Maximum inferred from carbon isotopes: A dataâ€model comparison study. Paleoceanography, 2017, 32, 2-17.	3.0	85
13	Atlantic-Pacific seesaw and its role in outgassing CO ₂ during Heinrich events. Paleoceanography, 2014, 29, 58-70.	3.0	81
14	Large-scale features of Last Interglacial climate: results from evaluating the & amp;lt;i>lig127k simulations for the Coupled Model Intercomparison Project (CMIP6)â€"Paleoclimate Modeling Intercomparison Project (PMIP4). Climate of the Past, 2021, 17, 63-94.	3.4	76
15	Future Projections of Antarctic Ice Shelf Melting Based on CMIP5 Scenarios. Journal of Climate, 2018, 31, 5243-5261.	3 . 2	62
16	Large-scale stress factors affecting coral reefs: open ocean sea surface temperature and surface seawater aragonite saturation over the next 400 years. Coral Reefs, 2012, 31, 309-319.	2.2	52
17	Ventilation of the North Atlantic Ocean during the Last Glacial Maximum: A comparison between simulated and observed radiocarbon ages. Paleoceanography, 2003, 18, n/a-n/a.	3.0	51
18	Denitrification under glacial and interglacial conditions: A physical approach. Paleoceanography, 2005, 20, n/a-n/a.	3.0	51

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19	Impact of floods versus routing events on the thermohaline circulation. Geophysical Research Letters, 2006, 33, .	4.0	47
20	Mechanisms for an $\hat{a}^1/47$ -kyr climate and sea-level oscillation during marine isotope stage 3. Geophysical Monograph Series, 2007, , 209-246.	0.1	47
21	Testing the sensitivity of the East Antarctic Ice Sheet to Southern Ocean dynamics: past changes and future implications. Journal of Quaternary Science, 2014, 29, 91-98.	2.1	46
22	Mechanisms of millennial-scale atmospheric CO2 change in numerical model simulations. Quaternary Science Reviews, 2019, 220, 30-74.	3.0	46
23	Forcing of the deep ocean circulation in simulations of the Last Glacial Maximum. Paleoceanography, 2002, 17, 5-1-5-15.	3.0	45
24	On the control of glacialâ€interglacial atmospheric CO ₂ variations by the Southern Hemisphere westerlies. Geophysical Research Letters, 2010, 37, .	4.0	37
25	Impact of oceanic circulation changes on atmospheric $\langle i \rangle \hat{i}' \langle i \rangle \langle sup \rangle 13 \langle sup \rangle CO \langle sub \rangle 2 \langle sub \rangle$. Global Biogeochemical Cycles, 2015, 29, 1944-1961.	4.9	35
26	The importance of the terrestrial weathering feedback for multimillennial coral reef habitat recovery. Global Biogeochemical Cycles, 2012, 26, .	4.9	34
27	CO2 threshold for millennial-scale oscillations in the climate system: implications for global warming scenarios. Climate Dynamics, 2008, 30, 161-174.	3.8	31
28	Intercomparison of Antarctic ice-shelf, ocean, and sea-ice interactions simulated by MetROMS-iceshelf and FESOM 1.4. Geoscientific Model Development, 2018, 11, 1257-1292.	3.6	30
29	A multi-model CMIP6-PMIP4 study of Arctic sea ice at 127 ka: sea ice data compilation and model differences. Climate of the Past, 2021, 17, 37-62.	3.4	29
30	Indian Ocean warming modulates global atmospheric circulation trends. Climate Dynamics, 2020, 55, 2053-2073.	3.8	28
31	Younger Dryas: A data to model comparison to constrain the strength of the overturning circulation. Geophysical Research Letters, 2007, 34, .	4.0	27
32	Climate simulations of the Permian‶riassic boundary: Ocean acidification and the extinction event. Paleoceanography, 2011, 26, .	3.0	27
33	Carbon-nitrogen feedbacks in the UVic ESCM. Geoscientific Model Development, 2012, 5, 1137-1160.	3 . 6	27
34	The Paleoceneâ€Eocene Thermal Maximum: How much carbon is enough?. Paleoceanography, 2014, 29, 946-963.	3.0	27
35	Sudden spreading of corrosive bottom water during the Palaeocene–Eocene Thermal Maximum. Nature Geoscience, 2015, 8, 458-461.	12.9	25
36	Evaluation of the University of Victoria Earth System Climate Model version 2.10 (UVic ESCM 2.10). Geoscientific Model Development, 2020, 13, 4183-4204.	3.6	23

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37	Potential increasing dominance of heterotrophy in the global ocean. Environmental Research Letters, 2015, 10, 074009.	5.2	21
38	The dynamics of cold events. Nature Geoscience, 2015, 8, 904-906.	12.9	20
39	Impact of sea ice variability on the oxygen isotope content of seawater under glacial and interglacial conditions. Paleoceanography, 2013, 28, 388-400.	3.0	19
40	Carbon storage on exposed continental shelves during the glacial-interglacial transition. Geophysical Research Letters, 2006, 33, .	4.0	18
41	Modelling Oxygen Isotopes in the University of Victoria Earth System Climate Model for Pre-industrial and Last Glacial Maximum Conditions. Atmosphere - Ocean, 2012, 50, 447-465.	1.6	18
42	Oceanic carbon and water masses during the Mystery Interval: A modelâ€data comparison study. Paleoceanography, 2012, 27, .	3.0	18
43	Explicit Planktic Calcifiers in the University of Victoria Earth System Climate Model, Version 2.9. Atmosphere - Ocean, 2015, 53, 332-350.	1.6	18
44	Exploring the oxygen isotope fingerprint of Dansgaard-Oeschger variability and Heinrich events. Quaternary Science Reviews, 2017, 159, 1-14.	3.0	17
45	Spurious sea ice formation caused by oscillatory ocean tracer advection schemes. Ocean Modelling, 2017, 116, 108-117.	2.4	17
46	A model study of warming-induced phosphorus–oxygen feedbacks in open-ocean oxygen minimum zones on millennial timescales. Earth System Dynamics, 2017, 8, 357-367.	7.1	17
47	Drivers of the evolution and amplitude of African Humid Periods. Communications Earth $\&$ Environment, 2021, 2, .	6.8	15
48	The dynamics of global change at the Paleocene-Eocene thermal maximum: A data-model comparison. Geochemistry, Geophysics, Geosystems, 2014, 15, 3830-3848.	2.5	14
49	Simulations of Heinrich Events in a coupled ocean-atmosphere-sea ice model. Geophysical Research Letters, 2002, 29, 16-1-16-3.	4.0	13
50	The Australian National Pollutant Inventory Fails to Fulfil Its Legislated Goals. International Journal of Environmental Research and Public Health, 2017, 14, 478.	2.6	12
51	Land–sea temperature contrasts at the Last Interglacial and their impact on the hydrological cycle. Climate of the Past, 2021, 17, 869-885.	3.4	12
52	Projected Changes to Australian Marine Heatwaves. Geophysical Research Letters, 2021, 48, e2020GL091323.	4.0	11
53	Surface Melting over Ice Shelves and Ice Sheets as Assessed from Modeled Surface Air Temperatures. Journal of Climate, 2010, 23, 1929-1936.	3.2	10
54	Magnitude of the 8.2Âka event freshwater forcing based on stable isotope modelling and comparison to future Greenland melting. Scientific Reports, 2021, 11, 5473.	3.3	10

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55	Quantification of factors impacting seawater and calcite \hat{l}' sup>180 during Heinrich Stadials 1 and 4. Paleoceanography, 2015, 30, 895-911.	3.0	9
56	Phytoplankton calcifiers control nitrate cycling and the pace of transition in warming icehouse and cooling greenhouse climates. Biogeosciences, 2019, 16, 1019-1034.	3.3	9
57	ACCESS datasets for CMIP6: methodology and idealised experiments. Journal of Southern Hemisphere Earth Systems Science, 2022, 72, 93-116.	1.8	9
58	Primary production sensitivity to phytoplankton light attenuation parameter increases with transient forcing. Biogeosciences, 2017, 14, 4767-4780.	3.3	8
59	Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. Climate of the Past, 2022, 18, 845-862.	3.4	7
60	Asymmetric dynamical ocean responses in warming icehouse and cooling greenhouse climates. Environmental Research Letters, 2018, 13, 125011.	5.2	6
61	Competition between ocean carbon pumps in simulations with varying Southern Hemisphere westerly wind forcing. Climate Dynamics, 2016, 46, 3463-3480.	3.8	5
62	Assessing the Spatial Origin of Meltwater Pulse 1A Using Oxygenâ€lsotope Fingerprinting. Paleoceanography and Paleoclimatology, 2019, 34, 2031-2046.	2.9	5
63	Freshwater forcing control on early-Holocene South American monsoon. Quaternary Science Reviews, 2020, 245, 106498.	3.0	5
64	Modelling the impact of biogenic particle flux intensity and composition on sedimentary Pa/Th. Quaternary Science Reviews, 2020, 240, 106394.	3.0	5
65	Sensitivity of the oceanic carbon reservoir to tropical surface wind stress variations. Geophysical Research Letters, 2013, 40, 2218-2223.	4.0	4
66	Southern Ocean Ecosystem Response to Last Glacial Maximum Boundary Conditions. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004075.	2.9	4
67	Explicit silicate cycling in the Kiel Marine Biogeochemistry Model version 3 (KMBM3) embedded in the UVic ESCM version 2.9. Geoscientific Model Development, 2021, 14, 7255-7285.	3.6	4
68	Carbon Dioxide Emission Pathways Avoiding Dangerous Ocean Impacts. Weather, Climate, and Society, 2012, 4, 212-229.	1.1	3
69	Lower oceanic <i>Î </i> ¹³ C during the last interglacial period compared to the Holocene. Climate of the Past, 2021, 17, 507-528.	3.4	3
70	Changes in atmospheric CO2 concentration over the past two millennia: contribution of climate variability, land-use and Southern Ocean dynamics. Climate Dynamics, 2022, 58, 2957-2979.	3.8	3
71	Marine carbon cycle response to a warmer Southern Ocean: the case of the last interglacial. Climate of the Past, 2022, 18, 507-523.	3.4	3
72	Evaluating the Extent of North Atlantic Deep Water and the Mean Atlantic \hat{l} 13 C From Statistical Reconstructions. Paleoceanography and Paleoclimatology, 2019, 34, 1022-1036.	2.9	2

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73	A multimodel investigation of atmospheric mechanisms for driving Arctic amplification in warmer climates. Journal of Climate, 2021, , 1-55.	3.2	2
74	Volcanism caused ancient global warming. Nature, 2017, 548, 531-533.	27.8	1
75	Carbon cycle dynamics during episodes of rapid climate change. Environmental Research Letters, 2021, 16, 040201.	5.2	1
76	Paleoceanography. Encyclopedia of Earth Sciences Series, 2009, , 690-696.	0.1	1
77	Conclusion Reconstructing and Modeling Past Oceans. Developments in Marine Geology, 2007, 1, 799-811.	0.4	0