

# Martin Werner

## List of Publications by Year in descending order

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113  
papers

9,852  
citations

66343

42  
h-index

39675

94  
g-index

195  
all docs

195  
docs citations

195  
times ranked

9448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 53.	1.6	90
2	Simulating glacial dust changes in the Southern Hemisphere using ECHAM6.3-HAM2.3. <i>Climate of the Past</i> , 2022, 18, 67-87.	3.4	5
3	Overview of the MOSAIC expedition: Atmosphere. <i>Elementa</i> , 2022, 10, .	3.2	121
4	Eurasian Holocene climate trends in transient coupled climate simulations and stable oxygen isotope records. <i>Journal of Quaternary Science</i> , 2022, 37, 729-744.	2.1	3
5	Calendar effects on surface air temperature and precipitation based on model-ensemble equilibrium and transient simulations from PMIP4 and PACMEDY. <i>Climate of the Past</i> , 2022, 18, 1047-1070.	3.4	8
6	Investigating stable oxygen and carbon isotopic variability in speleothem records over the last millennium using multiple isotope-enabled climate models. <i>Climate of the Past</i> , 2022, 18, 1625-1654.	3.4	5
7	Oxygen and hydrogen isotopic composition of tap waters in France. <i>Geological Society Special Publication</i> , 2021, 507, 47-61.	1.3	6
8	The role of air-sea fluxes for the water vapour isotope signals in the cold and warm sectors of extratropical cyclones over the Southern Ocean. <i>Weather and Climate Dynamics</i> , 2021, 2, 331-357.	3.5	17
9	A global climatology of the ocean surface during the Last Glacial Maximum mapped on a regular grid (GLOMAP). <i>Climate of the Past</i> , 2021, 17, 805-824.	3.4	17
10	A data-model approach to interpreting speleothem oxygen isotope records from monsoon regions. <i>Climate of the Past</i> , 2021, 17, 1119-1138.	3.4	14
11	How precipitation intermittency sets an optimal sampling distance for temperature reconstructions from Antarctic ice cores. <i>Climate of the Past</i> , 2021, 17, 1587-1605.	3.4	6
12	Applying an isotope-enabled regional climate model over the Greenland ice sheet: effect of spatial resolution on model bias. <i>Climate of the Past</i> , 2021, 17, 1685-1699.	3.4	4
13	Continuous monitoring of surface water vapour isotopic compositions at Neumayer Station III, East Antarctica. <i>Cryosphere</i> , 2021, 15, 4745-4767.	3.9	6
14	Disentangling different moisture transport pathways over the eastern subtropical North Atlantic using multi-platform isotope observations and high-resolution numerical modelling. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16319-16347.	4.9	12
15	High-Resolution Nudged Isotope Modeling With ECHAM6-Wiso: Impacts of Updated Model Physics and ERA5 Reanalysis Data. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, .	3.8	14
16	Interglacial Antarctic-Southern Ocean climate decoupling due to moisture source area shifts. <i>Nature Geoscience</i> , 2021, 14, 918-923.	12.9	12
17	Moisture origin and stable isotope characteristics of precipitation in southeast Siberia. <i>Hydrological Processes</i> , 2020, 34, 51-67.	2.6	31
18	Snowfall and Water Stable Isotope Variability in East Antarctica Controlled by Warm Synoptic Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032863.	3.3	15

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19	Limited Retreat of the Wilkes Basin Ice Sheet During the Last Interglacial. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088131.	4.0	13
20	Validation of ECHAM AGCMs Using Laser Spectrometer Data from Two Arctic Stations. <i>Atmospheric and Oceanic Optics</i> , 2020, 33, 702-707.	1.3	1
21	Moisture origin as a driver of temporal variabilities of the water vapour isotopic composition in the Lena River Delta, Siberia. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10493-10511.	4.9	17
22	Seasonal reconstructions coupling ice core data and an isotope-enabled climate model – methodological implications of seasonality, climate modes and selection of proxy data. <i>Climate of the Past</i> , 2020, 16, 1737-1758.	3.4	9
23	Verification of the isotopic atmospheric general circulation model for a monitoring station in Labytnangi. , 2020, , .		0
24	North Atlantic weather regimes in $\delta^{18}O$ of winter precipitation: isotopic fingerprint of the response in the atmospheric circulation after volcanic eruptions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2019, 71, 1633848.	1.6	1
25	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. <i>Nature Communications</i> , 2019, 10, 2984.	12.8	81
26	Evaluating model outputs using integrated global speleothem records of climate change since the last glacial. <i>Climate of the Past</i> , 2019, 15, 1557-1579.	3.4	37
27	Assessing the robustness of Antarctic temperature reconstructions over the past 2 millennia using pseudoproxy and data assimilation experiments. <i>Climate of the Past</i> , 2019, 15, 661-684.	3.4	21
28	Challenges associated with the climatic interpretation of water stable isotope records from a highly resolved firn core from Adlie Land, coastal Antarctica. <i>Cryosphere</i> , 2019, 13, 1297-1324.	3.9	21
29	Resolving the controls of water vapour isotopes in the Atlantic sector. <i>Nature Communications</i> , 2019, 10, 1632.	12.8	50
30	Water isotopes – climate relationships for the mid-Holocene and preindustrial period simulated with an isotope-enabled version of MPI-ESM. <i>Climate of the Past</i> , 2019, 15, 1913-1937.	3.4	41
31	Hydroclimate in the Pamirs Was Driven by Changes in Precipitation–Evaporation Seasonality Since the Last Glacial Period. <i>Geophysical Research Letters</i> , 2019, 46, 13972-13983.	4.0	31
32	Last Interglacial Hydroclimate Seasonality Reconstructed From Tropical Atlantic Corals. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 198-213.	2.9	13
33	The Climatological Impacts of Continental Surface Evaporation, Rainout, and Subcloud Processes on $\delta^{18}O$ of Water Vapor and Precipitation in Europe. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4390-4409.	3.3	22
34	Solar and volcanic forcing of North Atlantic climate inferred from a process-based reconstruction. <i>Climate of the Past</i> , 2018, 14, 1179-1194.	3.4	31
35	Reconciling glacial Antarctic water stable isotopes with ice sheet topography and the isotopic paleothermometer. <i>Nature Communications</i> , 2018, 9, 3537.	12.8	47
36	Estimates of late Cenozoic climate change relevant to Earth surface processes in tectonically active orogens. <i>Earth Surface Dynamics</i> , 2018, 6, 271-301.	2.4	34

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37	Water stable isotope spatio-temporal variability in Antarctica in 1960â€“2013: observations and simulations from the ECHAM5-wiso atmospheric general circulation model. <i>Climate of the Past</i> , 2018, 14, 923-946.	3.4	26
38	North Pacific freshwater events linked to changes in glacial ocean circulation. <i>Nature</i> , 2018, 559, 241-245.	27.8	48
39	The influence of volcanic eruptions on weather regimes over the North Atlantic simulated by ECHAM5/MPI-OM ensemble runs from 800 to 2000â€“CE. <i>Atmospheric Research</i> , 2018, 213, 211-223.	4.1	4
40	Modeling of water isotopes with model ECHAM6-wiso in nudging mode with reanalysis ERA5. , 2018, , .		1
41	Evaluating the skills of isotopeâ€“enabled general circulation models against in situ atmospheric water vapor isotope observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 246-263.	3.3	54
42	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. <i>Paleoceanography</i> , 2017, 32, 622-633.	3.0	86
43	An Experimental Investigation of Kinetic Fractionation of Openâ€“Water Evaporation Over a Large Lake. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,651.	3.3	21
44	Late quaternary climate, precipitation $\delta^{18}O$ , and Indian monsoon variations over the Tibetan Plateau. <i>Earth and Planetary Science Letters</i> , 2017, 457, 412-422.	4.4	28
45	Coherency of late Holocene European speleothem $\delta^{18}O$ records linked to North Atlantic Ocean circulation. <i>Climate Dynamics</i> , 2017, 49, 595-618.	3.8	39
46	Links between central Greenland stable isotopes, blocking and extreme climate variability over Europe at decadal to multidecadal time scales. <i>Climate Dynamics</i> , 2017, 49, 649-663.	3.8	10
47	Simulating climate and stable water isotopes during the last interglacial using a coupled climateâ€“isotope model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2027-2045.	3.8	21
48	A 60-year ice-core record of regional climate from AdÃ©lie Land, coastal Antarctica. <i>Cryosphere</i> , 2017, 11, 343-362.	3.9	24
49	MUSICA MetOp/IASI $\{H_2O, O_3, \delta^{18}O, \delta^2H\}$ pair retrieval simulations for validating tropospheric moisture pathways in atmospheric models. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 507-525.	3.1	14
50	Antarctic climate variability on regional and continental scales over the last 2000 years. <i>Climate of the Past</i> , 2017, 13, 1609-1634.	3.4	145
51	Comparison of the isotopic composition of precipitation and air for three Arctic stations with the results of the ECHAM5-wiso modeling. , 2017, , .		0
52	Isotopic exchange on the diurnal scale between near-surface snow and lower atmospheric water vapor at Kohlen station, East Antarctica. <i>Cryosphere</i> , 2016, 10, 1647-1663.	3.9	53
53	North Atlantic Oscillation controls on oxygen and hydrogen isotope gradients in winter precipitation across Europe; implications for palaeoclimate studies. <i>Climate of the Past</i> , 2016, 12, 2127-2143.	3.4	21
54	Glacialâ€“interglacial changes in $\delta^{18}O$ , $\delta^2H$ and deuterium excess $\delta^2H_{ex}$ results from the fully coupled ECHAM5/MPI-OM Earth system model. <i>Geoscientific Model Development</i> , 2016, 9, 647-670.	3.6	63

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55	Precipitation $\delta^{18}O$ over the Himalaya-Tibet orogen from ECHAM5-wiso simulations: Statistical analysis of temperature, topography and precipitation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9278-9300.	3.3	13
56	Tropical circulation intensification and tectonic extension recorded by Neogene terrestrial $\delta^{18}O$ records of the western United States. Geology, 2016, 44, 971-974.	4.4	10
57	Modern precipitation $\delta^{18}O$ and trajectory analysis over the Himalaya-Tibet Orogen from ECHAM5-wiso simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,432.	3.3	13
58	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica. Atmospheric Chemistry and Physics, 2016, 16, 6883-6900.	4.9	24
59	The effect of the East Atlantic pattern on the precipitation $\delta^{18}O$ -NAO relationship in Europe. Climate Dynamics, 2016, 47, 2059-2069.	3.8	42
60	Simulation of the isotopic composition of stratospheric water vapour – Part 1: Description and evaluation of the EMAC model. Atmospheric Chemistry and Physics, 2015, 15, 5537-5555.	4.9	13
61	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past-temperature reconstructions. Cryosphere, 2015, 9, 1481-1504.	3.9	41
62	Late-glacial to late-Holocene shifts in global precipitation $\delta^{18}O$ . Climate of the Past, 2015, 11, 1375-1393.	3.4	57
63	Climate modeling for Yamal territory using supercomputer atmospheric circulation model ECHAM5-wiso. , 2015, , .		1
64	Enriching the isotopic toolbox for migratory connectivity analysis: a new approach for migratory species breeding in remote or unexplored areas. Diversity and Distributions, 2015, 21, 416-427.	4.1	30
65	Long-term winter warming trend in the Siberian Arctic during the mid- to late Holocene. Nature Geoscience, 2015, 8, 122-125.	12.9	117
66	North-West African Hydrologic Changes in the Holocene: A Combined Isotopic Data and Model Approach. SpringerBriefs in Earth System Sciences, 2015, , 109-114.	0.1	1
67	The summer 2012 Greenland heat wave: In situ and remote sensing observations of water vapor isotopic composition during an atmospheric river event. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2970-2989.	3.3	78
68	Comparing past accumulation rate reconstructions in East Antarctic ice cores using $\delta^{10}Be$ , water isotopes and CMIP5-PMIP3 models. Climate of the Past, 2015, 11, 355-367.	3.4	19
69	Isotopic composition of $\delta^{18}O$ and $\delta^2H$ in atmospheric water vapour from ground-based near-infrared FTIR retrievals of $H_2O$ , $H_2^{18}O$ , and $HD^{16}O$ . Atmospheric Measurement Techniques, 2014, 7, 2567-2580.	3.1	19
70	Variations of oxygen-18 in West Siberian precipitation during the last 50 years. Atmospheric Chemistry and Physics, 2014, 14, 5853-5869.	4.9	36
71	Developing a western Siberia reference site for tropospheric water vapour isotopologue observations obtained by different techniques (in situ and remote sensing). Atmospheric Chemistry and Physics, 2014, 14, 5943-5957.	4.9	15
72	Stable isotopes in surface snow along a traverse route from Zhongshan station to Dome A, East Antarctica. Climate Dynamics, 2013, 41, 2427-2438.	3.8	21

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73	A review of climatic controls on $\delta^{18}\text{O}$ in precipitation over the Tibetan Plateau: Observations and simulations. <i>Reviews of Geophysics</i> , 2013, 51, 525-548.	23.0	654
74	Estimating the hydrogen isotopic composition of past precipitation using leaf-waxes from western Africa. <i>Quaternary Science Reviews</i> , 2013, 65, 88-101.	3.0	87
75	Early Cenozoic evolution of topography, climate, and stable isotopes in precipitation in the North American Cordillera. <i>Numerische Mathematik</i> , 2013, 313, 613-648.	1.4	43
76	Stable water isotopes in the coupled atmosphere-land surface model ECHAM5-JSBACH. <i>Geoscientific Model Development</i> , 2013, 6, 1463-1480.	3.6	79
77	Influence of orbital forcing and solar activity on water isotopes in precipitation during the mid- and late Holocene. <i>Climate of the Past</i> , 2013, 9, 13-26.	3.4	14
78	Simulated European stalagmite record and its relation to a quasi-decadal climate mode. <i>Climate of the Past</i> , 2013, 9, 89-98.	3.4	9
79	Water isotope variations in the global ocean model MPI-OM. <i>Geoscientific Model Development</i> , 2012, 5, 809-818.	3.6	40
80	Atmospheric response to the extreme Arctic sea ice conditions in 2007. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	42
81	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves. <i>Climate of the Past</i> , 2012, 8, 1781-1799.	3.4	29
82	Stable water isotopes in the ECHAM5 general circulation model: Toward high-resolution isotope modeling on a global scale. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	234
83	Climate information imprinted in oxygen-isotopic composition of precipitation in Europe. <i>Earth and Planetary Science Letters</i> , 2011, 311, 144-154.	4.4	62
84	Laepfle et al. reply. <i>Nature</i> , 2011, 479, E2-E4.	27.8	2
85	Synchronicity of Antarctic temperatures and local solar insolation on orbital timescales. <i>Nature</i> , 2011, 471, 91-94.	27.8	81
86	Modelling stable water isotopes: Status and perspectives. <i>EPJ Web of Conferences</i> , 2010, 9, 73-82.	0.3	2
87	An analysis of present and future ECHAM5 pressure fields using a classification of circulation patterns. <i>International Journal of Climatology</i> , 2009, 29, 1796-1810.	3.5	106
88	Orbitally driven east-west antiphasing of South American precipitation. <i>Nature Geoscience</i> , 2009, 2, 210-214.	12.9	275
89	Effect of lake evaporation on $\delta\text{D}$ values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan) Tj ETQq1 1 0.784314 rgBT /Overlook 1.8 133	1.8	133
90	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. <i>Science</i> , 2007, 317, 793-796.	12.6	1,880

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91	Modeling the isotopic composition of Antarctic snow using backward trajectories: Simulation of snow pit records. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	50
92	The aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1125-1156.	4.9	990
93	Stable isotopes in precipitation recording South American summer monsoon and ENSO variability: observations and model results. <i>Climate Dynamics</i> , 2005, 25, 401-413.	3.8	211
94	GRIP Deuterium Excess Reveals Rapid and Orbital-Scale Changes in Greenland Moisture Origin. <i>Science</i> , 2005, 309, 118-121.	12.6	287
95	Stable isotopes in East African precipitation record Indian Ocean zonal mode. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	46
96	Stable isotopes in precipitation in the Asian monsoon region. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	221
97	How Much Climatic Information Do Water Isotopes Contain?. , 2005, , 303-320.		13
98	Relative importance of climate and land use in determining present and future global soil dust emission. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	325
99	Reply to comment by N. M. Mahowald et al. on "Relative importance of climate and land use in determining present and future global soil dust emission". <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	11
100	20th Century Climate Change in the Tropical Andes: Observations and Model Results. <i>Climatic Change</i> , 2003, 59, 75-99.	3.6	252
101	Modeling $\delta^{18}O$ in precipitation over the tropical Americas: 1. Interannual variability and climatic controls. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	221
102	Modeling $\delta^{18}O$ in precipitation over the tropical Americas: 2. Simulation of the stable isotope signal in Andean ice cores. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	115
103	Coherent isotope history of Andean ice cores over the last century. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	119
104	Impact of precipitation seasonality changes on isotopic signals in polar ice cores: a multi-model analysis. <i>Earth and Planetary Science Letters</i> , 2003, 216, 525-538.	4.4	56
105	20th Century Climate Change in the Tropical Andes: Observations and Model Results. <i>Advances in Global Change Research</i> , 2003, , 75-99.	1.6	71
106	Modeling interannual variability of water isotopes in Greenland and Antarctica. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1.	3.3	75
107	Seasonal and interannual variability of the mineral dust cycle under present and glacial climate conditions. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 2-1.	3.3	138
108	A one-dimensional simulation of the water vapor isotope HDO in the tropical stratosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 32283-32294.	3.3	14

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109	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 53-71.	1.6	110
110	Borehole versus isotope temperatures on Greenland: Seasonality does matter. Geophysical Research Letters, 2000, 27, 723-726.	4.0	179
111	Possible changes of $\delta^{18}O$ in precipitation caused by a meltwater event in the North Atlantic. Journal of Geophysical Research, 2000, 105, 10161-10167.	3.3	17
112	Little Ice Age clearly recorded in northern Greenland ice cores. Geophysical Research Letters, 1998, 25, 1749-1752.	4.0	114
113	Water isotope module of the ECHAM atmospheric general circulation model: A study on timescales from days to several years. Journal of Geophysical Research, 1998, 103, 16871-16896.	3.3	324