

Martin Werner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

7,690
citations

38
h-index

87
g-index

195
ext. papers

8,727
ext. citations

7.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
121	Simulating glacial dust changes in the Southern Hemisphere using ECHAM6.3-HAM2.3. <i>Climate of the Past</i> , 2022 , 18, 67-87	3.9	1
120	Overview of the MOSAiC expedition Atmosphere. <i>Elementa</i> , 2022 , 10,	3.6	15
119	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	3.9	1
118	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	6.8	1
117	Continuous monitoring of surface water vapour isotopic compositions at Neumayer Station III, East Antarctica. <i>Cryosphere</i> , 2021 , 15, 4745-4767	5.5	2
116	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	3.3	3
115	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	3.9	4
114	A data-model approach to interpreting speleothem oxygen isotope records from monsoon regions. <i>Climate of the Past</i> , 2021 , 17, 1119-1138	3.9	0
113	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	3.9	0
112	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	3.9	2
111	Limited Retreat of the Wilkes Basin Ice Sheet During the Last Interglacial. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088131	4.9	6
110	Validation of ECHAM AGCMs Using Laser Spectrometer Data from Two Arctic Stations. <i>Atmospheric and Oceanic Optics</i> , 2020 , 33, 702-707	0.8	1
109	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	6.8	10
108	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	3.9	5
107	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	4.4	6
106	Moisture origin and stable isotope characteristics of precipitation in southeast Siberia. <i>Hydrological Processes</i> , 2020 , 34, 51-67	3.3	16
105	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	3.9	22

104	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	3.9	15
103	Challenges associated with the climatic interpretation of water stable isotope records from a highly resolved firn core from Adlè Land, coastal Antarctica. <i>Cryosphere</i> , 2019 , 13, 1297-1324	5.5	9
102	Resolving the controls of water vapour isotopes in the Atlantic sector. <i>Nature Communications</i> , 2019 , 10, 1632	17.4	31
101	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	3.3	0
100	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. <i>Nature Communications</i> , 2019 , 10, 2984	17.4	45
99	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	3.9	17
98	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	4.9	16
97	Last Interglacial Hydroclimate Seasonality Reconstructed From Tropical Atlantic Corals. <i>Paleoceanography and Paleoclimatology</i> , 2018 , 33, 198-213	3.3	9
96	The Climatological Impacts of Continental Surface Evaporation, Rainout, and Subcloud Processes on δD of Water Vapor and Precipitation in Europe. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4390-4409	4.4	14
95	Water stable isotope spatio-temporal variability in Antarctica in 1960-2013: observations and simulations from the ECHAM5-wiso atmospheric general circulation model. <i>Climate of the Past</i> , 2018 , 14, 923-946	3.9	15
94	North Pacific freshwater events linked to changes in glacial ocean circulation. <i>Nature</i> , 2018 , 559, 241-245	50.4	33
93	The influence of volcanic eruptions on weather regimes over the North Atlantic simulated by ECHAM5/MPI-OM ensemble runs from 800 to 2000 CE. <i>Atmospheric Research</i> , 2018 , 213, 211-223	5.4	3
92	Modeling of water isotopes with model ECHAM6-wiso in nudging mode with reanalysis ERA5 2018 ,		1
91	Solar and volcanic forcing of North Atlantic climate inferred from a process-based reconstruction. <i>Climate of the Past</i> , 2018 , 14, 1179-1194	3.9	22
90	Reconciling glacial Antarctic water stable isotopes with ice sheet topography and the isotopic paleothermometer. <i>Nature Communications</i> , 2018 , 9, 3537	17.4	31
89	Estimates of late Cenozoic climate change relevant to Earth surface processes in tectonically active orogens. <i>Earth Surface Dynamics</i> , 2018 , 6, 271-301	3.8	18
88	Evaluating the skills of isotope-enabled general circulation models against in situ atmospheric water vapor isotope observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 246-263	4.4	35
87	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. <i>Paleoceanography</i> , 2017 , 32, 622-633		70

86	A 60-year ice-core record of regional climate from Adl̄e Land, coastal Antarctica. <i>Cryosphere</i> , 2017 , 11, 343-362	5.5	14
85	MUSICA MetOp/IASI {H<sub>2</sub>O<i>D} pair retrieval simulations for validating tropospheric moisture pathways in atmospheric models. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 507-525	4	13
84	Antarctic climate variability on regional and continental scales over the last 2000 years. <i>Climate of the Past</i> , 2017 , 13, 1609-1634	3.9	92
83	An Experimental Investigation of Kinetic Fractionation of Open-Water Evaporation Over a Large Lake. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,651-11,663	4.4	16
82	Late quaternary climate, precipitation $\delta^{18}\text{O}$, and Indian monsoon variations over the Tibetan Plateau. <i>Earth and Planetary Science Letters</i> , 2017 , 457, 412-422	5.3	17
81	Coherency of late Holocene European speleothem $\delta^{18}\text{O}$ records linked to North Atlantic Ocean circulation. <i>Climate Dynamics</i> , 2017 , 49, 595-618	4.2	35
80	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	4.2	5
79	Simulating climate and stable water isotopes during the Last Interglacial using a coupled climate-isotope model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2027-2045	7.1	17
78	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica 2016 ,		2
77	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	5.5	40
76	Modern precipitation $\delta^{18}\text{O}$ and trajectory analysis over the Himalaya-Tibet Orogen from ECHAM5-wiso simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,432-10,452	4.4	8
75	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6883-6900	6.8	17
74	The effect of the East Atlantic pattern on the precipitation $\delta^{18}\text{O}$ -NAO relationship in Europe. <i>Climate Dynamics</i> , 2016 , 47, 2059-2069	4.2	34
73	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	3.9	18
72	Glacial/Interglacial changes in H<sub>2</sub><sup>18</sup>O, HDO and deuterium excess [results from the fully coupled ECHAM5/MPI-OM Earth system model. <i>Geoscientific Model Development</i> , 2016 , 9, 647-670	6.3	47
71	Precipitation $\delta^{18}\text{O}$ over the Himalaya-Tibet orogen from ECHAM5-wiso simulations: Statistical analysis of temperature, topography and precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9278-9300	4.4	10
70	Tropical circulation intensification and tectonic extension recorded by Neogene terrestrial $\delta^{18}\text{O}$ records of the western United States. <i>Geology</i> , 2016 , 44, 971-974	5	9
69	North-West African Hydrologic Changes in the Holocene: A Combined Isotopic Data and Model Approach. <i>SpringerBriefs in Earth System Sciences</i> , 2015 , 109-114	1	

68	The summer 2012 Greenland heat wave: In situ and remote sensing observations of water vapor isotopic composition during an atmospheric river event. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2970-2989	4.4	66
67	Simulation of the isotopic composition of stratospheric water vapour [Part 1: Description and evaluation of the EMAC model. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5537-5555	6.8	10
66	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past-temperature reconstructions. <i>Cryosphere</i> , 2015 , 9, 1481-1504	5.5	36
65	Late-glacial to late-Holocene shifts in global precipitation $\delta^{18}\text{O}$. <i>Climate of the Past</i> , 2015 , 11, 1375-1393	3.9	45
64	Climate modeling for Yamal territory using supercomputer atmospheric circulation model ECHAM5-wiso 2015 ,		1
63	Enriching the isotopic toolbox for migratory connectivity analysis: a new approach for migratory species breeding in remote or unexplored areas. <i>Diversity and Distributions</i> , 2015 , 21, 416-427	5	23
62	Long-term winter warming trend in the Siberian Arctic during the mid- to late Holocene. <i>Nature Geoscience</i> , 2015 , 8, 122-125	18.3	77
61	Comparing past accumulation rate reconstructions in East Antarctic ice cores using $\delta^{10}\text{Be}$, water isotopes and CMIP5-PMIP3 models. <i>Climate of the Past</i> , 2015 , 11, 355-367	3.9	13
60	Variations of oxygen-18 in West Siberian precipitation during the last 50 years. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5853-5869	6.8	27
59	Developing a western Siberia reference site for tropospheric water vapour isotopologue observations obtained by different techniques (in situ and remote sensing). <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5943-5957	6.8	8
58	A posteriori calculation of $\delta^{18}\text{O}$ and D in atmospheric water vapour from ground-based near-infrared FTIR retrievals of H_2O , H_2^{16}O , H_2^{18}O , and HD^{16}O .	4	15
57	Stable isotopes in surface snow along a traverse route from Zhongshan station to Dome A, East Antarctica. <i>Climate Dynamics</i> , 2013 , 41, 2427-2438	4.2	16
56	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	23.1	449
55	Estimating the hydrogen isotopic composition of past precipitation using leaf-waxes from western Africa. <i>Quaternary Science Reviews</i> , 2013 , 65, 88-101	3.9	68
54	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	3.9	10
53	Early Cenozoic evolution of topography, climate, and stable isotopes in precipitation in the North American Cordillera. <i>Numerische Mathematik</i> , 2013 , 313, 613-648	5.3	33
52	Stable water isotopes in the coupled atmosphere-land and surface model ECHAM5-JSBACH. <i>Geoscientific Model Development</i> , 2013 , 6, 1463-1480	6.3	70
51	Simulated European stalagmite record and its relation to a quasi-decadal climate mode. <i>Climate of the Past</i> , 2013 , 9, 89-98	3.9	9

50	Atmospheric response to the extreme Arctic sea ice conditions in 2007. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	40
49	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves. <i>Climate of the Past</i> , 2012 , 8, 1781-1799	3.9	28
48	Water isotope variations in the global ocean model MPI-OM. <i>Geoscientific Model Development</i> , 2012 , 5, 809-818	6.3	30
47	Water isotope variations in the global ocean model MPI-OM 2012 ,		1
46	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,		187
45	Climate information imprinted in oxygen-isotopic composition of precipitation in Europe. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 144-154	5.3	50
44	Laepfle et al. reply. <i>Nature</i> , 2011 , 479, E2-E4	50.4	2
43	Synchronicity of Antarctic temperatures and local solar insolation on orbital timescales. <i>Nature</i> , 2011 , 471, 91-4	50.4	65
42	Modelling stable water isotopes: Status and perspectives. <i>EPJ Web of Conferences</i> , 2010 , 9, 73-82	0.3	0
41	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	89
40	Orbitally driven east-west antiphasing of South American precipitation. <i>Nature Geoscience</i> , 2009 , 2, 210-213	21.3	230
39	Effect of lake evaporation on δD values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan Plateau) and Holzmaar (Germany). <i>Organic Geochemistry</i> , 2008 , 39, 711-729	3.1	118
38	Orbital and millennial Antarctic climate variability over the past 800,000 years. <i>Science</i> , 2007 , 317, 793-633,3	33.3	1535
37	Modeling the isotopic composition of Antarctic snow using backward trajectories: Simulation of snow pit records. <i>Journal of Geophysical Research</i> , 2006 , 111,		45
36	Stable isotopes in East African precipitation record Indian Ocean zonal mode. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	32
35	Stable isotopes in precipitation in the Asian monsoon region. <i>Journal of Geophysical Research</i> , 2005 , 110,		184
34	The aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1125-1156	6.8	839
33	Stable isotopes in precipitation recording South American summer monsoon and ENSO variability: observations and model results. <i>Climate Dynamics</i> , 2005 , 25, 401-413	4.2	175

32	GRIP deuterium excess reveals rapid and orbital-scale changes in Greenland moisture origin. <i>Science</i> , 2005 , 309, 118-21	33.3	249
31	How Much Climatic Information Do Water Isotopes Contain? 2005 , 303-320		11
30	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	4.9	246
29	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,	4.9	8
28	20th Century Climate Change in the Tropical Andes: Observations and Model Results. <i>Climatic Change</i> , 2003 , 59, 75-99	4.5	227
27	Modeling $\delta^{18}O$ in precipitation over the tropical Americas: 1. Interannual variability and climatic controls. <i>Journal of Geophysical Research</i> , 2003 , 108,		188
26	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,		92
25	Coherent isotope history of Andean ice cores over the last century. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	99
24	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	5.3	51
23	20th Century Climate Change in the Tropical Andes: Observations and Model Results. <i>Advances in Global Change Research</i> , 2003 , 75-99	1.2	46
22	Modeling interannual variability of water isotopes in Greenland and Antarctica. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 1-1		61
21	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		116
20	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 53-71	3.3	85
19	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001 , 53, 53-71	3.3	100
18	A one-dimensional simulation of the water vapor isotope HDO in the tropical stratosphere. <i>Journal of Geophysical Research</i> , 2001 , 106, 32283-32294		12
17	Borehole versus isotope temperatures on Greenland: Seasonality does matter. <i>Geophysical Research Letters</i> , 2000 , 27, 723-726	4.9	157
16	Possible changes of $\delta^{18}O$ in precipitation caused by a meltwater event in the North Atlantic. <i>Journal of Geophysical Research</i> , 2000 , 105, 10161-10167		13
15	Little Ice Age clearly recorded in northern Greenland ice cores. <i>Geophysical Research Letters</i> , 1998 , 25, 1749-1752	4.9	97

14	Water isotope module of the ECHAM atmospheric general circulation model: A study on timescales from days to several years. <i>Journal of Geophysical Research</i> , 1998 , 103, 16871-16896		286
13	High-resolution nudged isotope modelling with ECHAM6-wiso: Impacts of updated model physics and ERA5 reanalysis data. <i>Journal of Advances in Modeling Earth Systems</i> ,	7.1	2
12	ECHAM5-wiso water vapour isotopologues simulation and its comparison with WS-CRDS measurements and retrievals from GOSAT and ground-based FTIR spectra in the atmosphere of Western Siberia		7
11	Variations of oxygen-18 in West Siberian precipitation during the last 50 yr		2
10	Retrieval of $\delta^{18}\text{O}$ and D in atmospheric water vapour from ground-based FTIR		2
9	Glacial-Interglacial shifts in global and regional precipitation $\delta^{18}\text{O}$		5
8	Simulated European stalagmite record and its relation to a quasi-decadal climate mode		1
7	Glacial-Interglacial changes of H_2^{18}O , HDO and deuterium excess [results from the fully coupled Earth System Model ECHAM5/MPI-OM		3
6	Isotopic exchange on the diurnal scale between near-surface snow and lower atmospheric water vapor at Kohnen station, East Antarctica		6
5	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		2
4	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past temperature reconstructions		1
3	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves		1
2	Oxygen and hydrogen isotopic composition of tap waters in France. <i>Geological Society Special Publication</i> , SP507-2020-207	1.7	4
1	Eurasian Holocene climate trends in transient coupled climate simulations and stable oxygen isotope records. <i>Journal of Quaternary Science</i> ,	2.3	1