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	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. Science, 2007, 317, 793-796.	12.6	1,880
2	The aerosol-climate model ECHAM5-HAM. Atmospheric Chemistry and Physics, 2005, 5, 1125-1156.	4.9	990
3	A review of climatic controls on Î´¹⁸O in precipitation over the Tibetan Plateau: Observations and simulations. Reviews of Geophysics, 2013, 51, 525-548.	23.0	654
4	Relative importance of climate and land use in determining present and future global soil dust emission. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	325
5	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
6	GRIP Deuterium Excess Reveals Rapid and Orbital-Scale Changes in Greenland Moisture Origin. Science, 2005, 309, 118-121.	12.6	287
7	Orbitally driven eastâ€“west antiphasing of SouthÂAmerican precipitation. Nature Geoscience, 2009, 2, 210-214.	12.9	275
8	20th Century Climate Change in the Tropical Andes: Observations and Model Results. Climatic Change, 2003, 59, 75-99.	3.6	252
9	Stable water isotopes in the ECHAM5 general circulation model: Toward high-resolution isotope modeling on a global scale. Journal of Geophysical Research, 2011, 116, .	3.3	234
10	Modeling Î´ 18 O in precipitation over the tropical Americas: 1. Interannual variability and climatic controls. Journal of Geophysical Research, 2003, 108, .	3.3	221
11	Stable isotopes in precipitation in the Asian monsoon region. Journal of Geophysical Research, 2005, 110, .	3.3	221
12	Stable isotopes in precipitation recording South American summer monsoon and ENSO variability: observations and model results. Climate Dynamics, 2005, 25, 401-413.	3.8	211
13	Borehole versus isotope temperatures on Greenland: Seasonality does matter. Geophysical Research Letters, 2000, 27, 723-726.	4.0	179
14	Antarctic climate variability on regional and continental scales over the last 2000Âyears. Climate of the Past, 2017, 13, 1609-1634.	3.4	145
15	Seasonal and interannual variability of the mineral dust cycle under present and glacial climate conditions. Journal of Geophysical Research, 2002, 107, AAC 2-1.	3.3	138
16	Effect of lake evaporation on Î´D values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	133
17	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
18	Coherent isotope history of Andean ice cores over the last century. Geophysical Research Letters, 2003, 30, .	4.0	119

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19	Long-term winter warming trend in the Siberian Arctic during the mid- to late Holocene. Nature Geoscience, 2015, 8, 122-125.	12.9	117
20	Modeling Î´ 18 O in precipitation over the tropical Americas: 2. Simulation of the stable isotope signal in Andean ice cores. Journal of Geophysical Research, 2003, 108, .	3.3	115
21	Little Ice Age clearly recorded in northern Greenland ice cores. Geophysical Research Letters, 1998, 25, 1749-1752.	4.0	114
22	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
23	An analysis of present and future ECHAM5 pressure fields using a classification of circulation patterns. International Journal of Climatology, 2009, 29, 1796-1810.	3.5	106
24	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 53.	1.6	90
25	Estimating the hydrogen isotopic composition of past precipitation using leaf-waxes from western Africa. Quaternary Science Reviews, 2013, 65, 88-101.	3.0	87
26	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. Paleoceanography, 2017, 32, 622-633.	3.0	86
27	Synchronicity of Antarctic temperatures and local solar insolation on orbital timescales. Nature, 2011, 471, 91-94.	27.8	81
28	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. Nature Communications, 2019, 10, 2984.	12.8	81
29	Stable water isotopes in the coupled atmosphereâ€“land surface model ECHAM5-JSBACH. Geoscientific Model Development, 2013, 6, 1463-1480.	3.6	79
30	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
31	Modeling interannual variability of water isotopes in Greenland and Antarctica. Journal of Geophysical Research, 2002, 107, ACL 1-1.	3.3	75
32	20th Century Climate Change in the Tropical Andes: Observations and Model Results. Advances in Global Change Research, 2003, , 75-99.	1.6	71
33	Glacialâ€“interglacial changes in H₂¹⁸O, HDO and deuterium excess â€“ results from the fully coupled ECHAM5/MPI-OM Earth system model. Geoscientific Model Development, 2016, 9, 647-670.	3.6	63
34	Climate information imprinted in oxygen-isotopic composition of precipitation in Europe. Earth and Planetary Science Letters, 2011, 311, 144-154.	4.4	62
35	Late-glacial to late-Holocene shifts in global precipitation Î´¹⁸O. Climate of the Past, 2015, 11, 1375-1393.	3.4	57
36	Impact of precipitation seasonality changes on isotopic signals in polar ice cores: a multi-model analysis. Earth and Planetary Science Letters, 2003, 216, 525-538.	4.4	56

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37	Evaluating the skills of isotopeâ€enabled general circulation models against in situ atmospheric water vapor isotope observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 246-263.	3.3	54
38	Isotopic exchange on the diurnal scale between near-surface snow and lower atmospheric water vapor at Kohnen station, East Antarctica. Cryosphere, 2016, 10, 1647-1663.	3.9	53
39	Modeling the isotopic composition of Antarctic snow using backward trajectories: Simulation of snow pit records. Journal of Geophysical Research, 2006, 111, .	3.3	50
40	Resolving the controls of water vapour isotopes in the Atlantic sector. Nature Communications, 2019, 10, 1632.	12.8	50
41	North Pacific freshwater events linked to changes in glacial ocean circulation. Nature, 2018, 559, 241-245.	27.8	48
42	Reconciling glacial Antarctic water stable isotopes with ice sheet topography and the isotopic paleothermometer. Nature Communications, 2018, 9, 3537.	12.8	47
43	Stable isotopes in East African precipitation record Indian Ocean zonal mode. Geophysical Research Letters, 2005, 32, .	4.0	46
44	Early Cenozoic evolution of topography, climate, and stable isotopes in precipitation in the North American Cordillera. Numerische Mathematik, 2013, 313, 613-648.	1.4	43
45	Atmospheric response to the extreme Arctic sea ice conditions in 2007. Geophysical Research Letters, 2012, 39, .	4.0	42
46	The effect of the East Atlantic pattern on the precipitation Î´18O-NAO relationship in Europe. Climate Dynamics, 2016, 47, 2059-2069.	3.8	42
47	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
48	Water isotopes â€“ climate relationships for the mid-Holocene and preindustrial period simulated with an isotope-enabled version of MPI-ESM. Climate of the Past, 2019, 15, 1913-1937.	3.4	41
49	Water isotope variations in the global ocean model MPI-OM. Geoscientific Model Development, 2012, 5, 809-818.	3.6	40
50	Coherency of late Holocene European speleothem Î´18O records linked to North Atlantic Ocean circulation. Climate Dynamics, 2017, 49, 595-618.	3.8	39
51	Evaluating model outputs using integrated global speleothem records of climate change since the last glacial. Climate of the Past, 2019, 15, 1557-1579.	3.4	37
52	Variations of oxygen-18 in West Siberian precipitation during the last 50 years. Atmospheric Chemistry and Physics, 2014, 14, 5853-5869.	4.9	36
53	Estimates of late Cenozoic climate change relevant to Earth surface processes in tectonically active orogens. Earth Surface Dynamics, 2018, 6, 271-301.	2.4	34
54	Solar and volcanic forcing of North Atlantic climate inferred from a process-based reconstruction. Climate of the Past, 2018, 14, 1179-1194.	3.4	31

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55	Hydroclimate in the Pamirs Was Driven by Changes in Precipitationâ€Evaporation Seasonality Since the Last Glacial Period. Geophysical Research Letters, 2019, 46, 13972-13983.	4.0	31
56	Moisture origin and stable isotope characteristics of precipitation in southeast Siberia. Hydrological Processes, 2020, 34, 51-67.	2.6	31
57	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
58	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves. Climate of the Past, 2012, 8, 1781-1799.	3.4	29
59	Late quaternary climate, precipitation Î´18O, and Indian monsoon variations over the Tibetan Plateau. Earth and Planetary Science Letters, 2017, 457, 412-422.	4.4	28
60	Water stable isotope spatio-temporal variability in Antarctica in 1960â€“2013: observations and simulations from the ECHAM5-wiso atmospheric general circulation model. Climate of the Past, 2018, 14, 923-946.	3.4	26
61	Precipitation regime and stable isotopes at Dome Fuji, East Antarctica. Atmospheric Chemistry and Physics, 2016, 16, 6883-6900.	4.9	24
62	A 60-year ice-core record of regional climate from AdÃ©lie Land, coastal Antarctica. Cryosphere, 2017, 11, 343-362.	3.9	24
63	The Climatological Impacts of Continental Surface Evaporation, Rainout, and Subcloud Processes on Î´D of Water Vapor and Precipitation in Europe. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4390-4409.	3.3	22
64	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
65	North Atlantic Oscillation controls on oxygen and hydrogen isotope gradients in winter precipitation across Europe; implications for palaeoclimate studies. Climate of the Past, 2016, 12, 2127-2143.	3.4	21
66	An Experimental Investigation of Kinetic Fractionation of Openâ€Water Evaporation Over a Large Lake. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,651.	3.3	21
67	Simulating climate and stable water isotopes during the <scp>L</scp>ast <scp>I</scp>nterglacial using a coupled climateâ€isotope model. Journal of Advances in Modeling Earth Systems, 2017, 9, 2027-2045.	3.8	21
68	Assessing the robustness of Antarctic temperature reconstructions over the past 2Âmillennia using pseudoproxy and data assimilation experiments. Climate of the Past, 2019, 15, 661-684.	3.4	21
69	Challenges associated with the climatic interpretation of water stable isotope records from a highly resolved firn core from AdÃ©lie Land, coastal Antarctica. Cryosphere, 2019, 13, 1297-1324.	3.9	21
70	A posteriori calculation of Î´¹⁸O and ÎD in atmospheric water vapour from ground-based near-infrared FTIR retrievals of H₂¹⁶O, H₂¹⁸O, and HD¹⁶O. Atmospheric Measurement Techniques, 2014, 7, 2567-2580.	3.1	19
71	Comparing past accumulation rate reconstructions in East Antarctic ice cores using ¹⁰Be, water isotopes and CMIP5-PMIP3 models. Climate of the Past, 2015, 11, 355-367.	3.4	19
72	Possible changes of Î´18O in precipitation caused by a meltwater event in the North Atlantic. Journal of Geophysical Research, 2000, 105, 10161-10167.	3.3	17

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73	The role of airâ€“sea fluxes for the water vapour isotope signals in the cold and warm sectors of extratropical cyclones over the Southern Ocean. Weather and Climate Dynamics, 2021, 2, 331-357.	3.5	17
74	A global climatology of the ocean surface during the Last Glacial Maximum mapped on a regular grid (GLOMAP). Climate of the Past, 2021, 17, 805-824.	3.4	17
75	Moisture origin as a driver of temporal variabilities of the water vapour isotopic composition in the Lena River Delta, Siberia. Atmospheric Chemistry and Physics, 2020, 20, 10493-10511.	4.9	17
76	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
77	Snowfall and Water Stable Isotope Variability in East Antarctica Controlled by Warm Synoptic Events. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032863.	3.3	15
78	A one-dimensional simulation of the water vapor isotope HDO in the tropical stratosphere. Journal of Geophysical Research, 2001, 106, 32283-32294.	3.3	14
79	Influence of orbital forcing and solar activity on water isotopes in precipitation during the mid- and late Holocene. Climate of the Past, 2013, 9, 13-26.	3.4	14
80	MUSICA MetOp/IASI {H₂O,<i>Î´</i>D} pair retrieval simulations for validating tropospheric moisture pathways in atmospheric models. Atmospheric Measurement Techniques, 2017, 10, 507-525.	3.1	14
81	A dataâ€“model approach to interpreting speleothem oxygen isotope records from monsoon regions. Climate of the Past, 2021, 17, 1119-1138.	3.4	14
82	Highâ€Resolution Nudged Isotope Modeling With ECHAM6â€Wiso: Impacts of Updated Model Physics and ERA5 Reanalysis Data. Journal of Advances in Modeling Earth Systems, 2021, 13, .	3.8	14
83	Simulation of the isotopic composition of stratospheric water vapour â€“ Part 1: Description and evaluation of the EMAC model. Atmospheric Chemistry and Physics, 2015, 15, 5537-5555.	4.9	13
84	Precipitation Î´¹⁸O over the Himalayaâ€Tibet orogen from ECHAM5â€wiso simulations: Statistical analysis of temperature, topography and precipitation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9278-9300.	3.3	13
85	Modern precipitation Î´¹⁸O and trajectory analysis over the Himalayaâ€Tibet Orogen from ECHAM5â€wiso simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,432.	3.3	13
86	Last Interglacial Hydroclimate Seasonality Reconstructed From Tropical Atlantic Corals. Paleoceanography and Paleoclimatology, 2018, 33, 198-213.	2.9	13
87	Limited Retreat of the Wilkes Basin Ice Sheet During the Last Interglacial. Geophysical Research Letters, 2020, 47, e2020GL088131.	4.0	13
88	How Much Climatic Information Do Water Isotopes Contain?. , 2005, , 303-320.		13
89	Disentangling different moisture transport pathways over the eastern subtropical North Atlantic using multi-platform isotope observations and high-resolution numerical modelling. Atmospheric Chemistry and Physics, 2021, 21, 16319-16347.	4.9	12
90	Interglacial Antarcticâ€“Southern Ocean climate decoupling due to moisture source area shifts. Nature Geoscience, 2021, 14, 918-923.	12.9	12

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91	Reply to comment by N. M. Mahowald et al. on â€œRelative importance of climate and land use in determining present and future global soil dust emissionâ€. Geophysical Research Letters, 2004, 31, .	4.0	11
92	Tropical circulation intensification and tectonic extension recorded by Neogene terrestrial Î´¹⁸O records of the western United States. Geology, 2016, 44, 971-974.	4.4	10
93	Links between central Greenland stable isotopes, blocking and extreme climate variability over Europe at decadal to multidecadal time scales. Climate Dynamics, 2017, 49, 649-663.	3.8	10
94	Seasonal reconstructions coupling ice core data and an isotope-enabled climate model â€“ methodological implications of seasonality, climate modes and selection of proxy data. Climate of the Past, 2020, 16, 1737-1758.	3.4	9
95	Simulated European stalagmite record and its relation to a quasi-decadal climate mode. Climate of the Past, 2013, 9, 89-98.	3.4	9
96	Calendar effects on surface air temperature and precipitation based on model-ensemble equilibrium and transient simulations from PMIP4 and PACMEDY. Climate of the Past, 2022, 18, 1047-1070.	3.4	8
97	Oxygen and hydrogen isotopic composition of tap waters in France. Geological Society Special Publication, 2021, 507, 47-61.	1.3	6
98	How precipitation intermittency sets an optimal sampling distance for temperature reconstructions from Antarctic ice cores. Climate of the Past, 2021, 17, 1587-1605.	3.4	6
99	Continuous monitoring of surface water vapour isotopic compositions at Neumayer Station III, East Antarctica. Cryosphere, 2021, 15, 4745-4767.	3.9	6
100	Simulating glacial dust changes in the Southern Hemisphere using ECHAM6.3-HAM2.3. Climate of the Past, 2022, 18, 67-87.	3.4	5
101	Investigating stable oxygen and carbon isotopic variability in speleothem records over the last millennium using multiple isotope-enabled climate models. Climate of the Past, 2022, 18, 1625-1654.	3.4	5
102	The influence of volcanic eruptions on weather regimes over the North Atlantic simulated by ECHAM5/MPI-OM ensemble runs from 800 to 2000â€¯CE. Atmospheric Research, 2018, 213, 211-223.	4.1	4
103	Applying an isotope-enabled regional climate model over the Greenland ice sheet: effect of spatial resolution on model bias. Climate of the Past, 2021, 17, 1685-1699.	3.4	4
104	Eurasian Holocene climate trends in transient coupled climate simulations and stable oxygen isotope records. Journal of Quaternary Science, 2022, 37, 729-744.	2.1	3
105	Modelling stable water isotopes: Status and perspectives. EPJ Web of Conferences, 2010, 9, 73-82.	0.3	2
106	Laepple et al. reply. Nature, 2011, 479, E2-E4.	27.8	2
107	Climate modeling for Yamal territory using supercomputer atmospheric circulation model ECHAM5-wiso. , 2015, , .		1
108	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

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109	North Atlantic weather regimes in Î´18O of winter precipitation: isotopic fingerprint of the response in the atmospheric circulation after volcanic eruptions. Tellus, Series B: Chemical and Physical Meteorology, 2019, 71, 1633848.	1.6	1
110	Modeling of water isotopes with model ECHAM6-wiso in nudging mode with reanalysis ERA5. , 2018, , .		1
111	Validation of ECHAM AGCMs Using Laser Spectrometer Data from Two Arctic Stations. Atmospheric and Oceanic Optics, 2020, 33, 702-707.	1.3	1
112	Comparison of the isotopic composition of precipitation and air for three Arctic stations with the results of the ECHAM5-wiso modeling. , 2017, , .		0
113	Verification of the isotopic atmospheric general circulation model for a monitoring station in Labytnangi. , 2020, , .		0