

Jesse M Nusbaumer

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,098
citations

393982

19
h-index

414034

32
g-index

32
all docs

32
docs citations

32
times ranked

1448
citing authors

#	ARTICLE	IF	CITATIONS
1	The Connected Isotopic Water Cycle in the Community Earth System Model Version 1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2547-2566.	1.3	111
2	Congo Basin precipitation: Assessing seasonality, regional interactions, and sources of moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6882-6898.	1.2	95
3	Evaluating hydrological processes in the Community Atmosphere Model Version 5 (CAM5) using stable isotope ratios of water. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 949-977.	1.3	93
4	Evaluation of modeled land-atmosphere exchanges with a comprehensive water isotope fractionation scheme in version 4 of the Community Land and Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 978-1001.	1.3	92
5	Reduced ENSO variability at the LGM revealed by an isotope-enabled Earth system model. <i>Geophysical Research Letters</i> , 2017, 44, 6984-6992.	1.5	71
6	Deciphering Oxygen Isotope Records From Chinese Speleothems With an Isotope-Enabled Climate Model. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2098-2112.	1.3	66
7	Hydroclimate footprint of pan-Asian monsoon water isotope during the last deglaciation. <i>Science Advances</i> , 2021, 7, .	4.7	66
8	Interpreting Precession-Driven $\delta^{18}\text{O}$ Variability in the South Asian Monsoon Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5927-5946.	1.2	49
9	Determining water sources in the boundary layer from tall tower profiles of water vapor and surface water isotope ratios after a snowstorm in Colorado. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1607-1623.	1.9	47
10	Investigating tropical cyclone-climate feedbacks using the TRMM Microwave Imager and the Quick Scatterometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	46
11	Numerical Evaluation of the Modern and Future Origins of Atmospheric River Moisture Over the West Coast of the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6423-6442.	1.2	32
12	A mathematical framework for analysis of water tracers: Part 1: Development of theory and application to the preindustrial mean state. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 991-1013.	1.3	27
13	Precipitation efficiency derived from isotope ratios in water vapor distinguishes dynamical and microphysical influences on subtropical atmospheric constituents. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9119-9137.	1.2	24
14	Volcanic Eruption Signatures in the Isotope-Enabled Last Millennium Ensemble. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1534-1552.	1.3	24
15	Characterizing seawater oxygen isotopic variability in a regional ocean modeling framework: Implications for coral proxy records. <i>Paleoceanography</i> , 2015, 30, 1573-1593.	3.0	23
16	Spatial Shift of Greenland Moisture Sources Related to Enhanced Arctic Warming. <i>Geophysical Research Letters</i> , 2019, 46, 14723-14731.	1.5	23
17	Impact of Convective Activity on Precipitation $\delta^{18}\text{O}$ in Isotope-Enabled General Circulation Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,595.	1.2	22
18	A Mathematical Framework for Analysis of Water Tracers. Part II: Understanding Large-Scale Perturbations in the Hydrological Cycle due to CO ₂ Doubling. <i>Journal of Climate</i> , 2016, 29, 6765-6782.	1.2	20

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19	Tracking the Strength of the Walker Circulation With Stable Isotopes in Water Vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7254-7270.	1.2	20
20	Detecting shifts in tropical moisture imbalances with satellite-derived isotope ratios in water vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5763-5779.	1.2	19
21	Greater aerial moisture transport distances with warming amplify interbasin salinity contrasts. <i>Geophysical Research Letters</i> , 2016, 43, 8677-8684.	1.5	17
22	Twentieth Century Seawater $\delta^{18}O$ Dynamics and Implications for Coral-Based Climate Reconstruction. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 606-625.	1.3	17
23	Influence of sea-ice anomalies on Antarctic precipitation using source attribution in the Community Earth System Model. <i>Cryosphere</i> , 2020, 14, 429-444.	1.5	16
24	Evaluating a Moist Isentropic Framework for Poleward Moisture Transport: Implications for Water Isotopes Over Antarctica. <i>Geophysical Research Letters</i> , 2019, 46, 7819-7827.	1.5	15
25	Nonequilibrium Fractionation During Ice Cloud Formation in iCAM5: Evaluating the Common Parameterization of Supersaturation as a Linear Function of Temperature. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3777-3793.	1.3	15
26	Climate and carbon cycle changes under the overshoot scenario. <i>Global and Planetary Change</i> , 2008, 62, 164-172.	1.6	14
27	Investigating the Direct Meltwater Effect in Terrestrial Oxygen Isotope Paleoclimate Records Using an Isotope-Enabled Earth System Model. <i>Geophysical Research Letters</i> , 2017, 44, 12,501.	1.5	10
28	Enhancing Understanding of the Hydrological Cycle via Pairing of Process-Oriented and Isotope Ratio Tracers. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002648.	1.3	7
29	Lipid Biomarker Record Documents Hydroclimatic Variability of the Mississippi River Basin During the Common Era. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087237.	1.5	6
30	Tracking Shallow Convective Mixing and Its Influence on Low-Level Clouds With Stable Water Isotopes in Vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
31	Constraining Clouds and Convective Parameterizations in a Climate Model Using Paleoclimate Data. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	5
32	The Role of Isotope-Enabled GCM Complexity in Simulating Tropical Circulation Changes in High-CO ₂ Scenarios. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002163.	1.3	1