John Worden

List of Publications by Year
in descending order

25 papers	2,032 citations	394421 19 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	1898 citing authors

#	Article	IF	Citations
1	Importance of rain evaporation and continental convection in the tropical water cycle. Nature, 2007, 445, 528-532.	27.8	401
2	Stable isotopes in atmospheric water vapor and applications to the hydrologic cycle. Reviews of Geophysics, 2016, 54, 809-865.	23.0	241
3	Tropospheric Emission Spectrometer observations of the tropospheric HDO/H2O ratio: Estimation approach and characterization. Journal of Geophysical Research, 2006, 111, .	3.3	167
4	Predicted errors of tropospheric emission spectrometer nadir retrievals from spectral window selection. Journal of Geophysical Research, 2004, 109, .	3.3	165
5	Processâ€evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. Journal of Geophysical Research, 2012, 117, .	3.3	114
6	Role of continental recycling in intraseasonal variations of continental moisture as deduced from model simulations and water vapor isotopic measurements. Water Resources Research, 2013, 49, 4136-4156.	4.2	96
7	Understanding the Sahelian water budget through the isotopic composition of water vapor and precipitation. Journal of Geophysical Research, 2010, 115, .	3.3	95
8	Asian monsoon hydrometeorology from TES and SCIAMACHY water vapor isotope measurements and LMDZ simulations: Implications for speleothem climate record interpretation. Journal of Geophysical Research, 2012, 117, .	3.3	87
9	Properties of air mass mixing and humidity in the subtropics from measurements of the D/H isotope ratio of water vapor at the Mauna Loa Observatory. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	85
10	Processâ€evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopic observations: 2. Using isotopic diagnostics to understand the mid and upper tropospheric moist bias in the tropics and subtropics. Journal of Geophysical Research, 2012, 117, .	3.3	77
11	Comparison of atmospheric hydrology over convective continental regions using water vapor isotope measurements from space. Journal of Geophysical Research, 2008, 113, .	3.3	66
12	Comparison of an isotopic atmospheric general circulation model with new quasi-global satellite measurements of water vapor isotopologues. Journal of Geophysical Research, 2011, 116, .	3.3	66
13	Impact of atmospheric convection on south Tibet summer precipitation isotopologue composition using a combination of in situ measurements, satellite data, and atmospheric general circulation modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3852-3871.	3.3	66
14	Observed vertical distribution of tropospheric ozone during the Asian summertime monsoon. Journal of Geophysical Research, 2009, 114, .	3.3	59
15	Upwind convective influences on the isotopic composition of atmospheric water vapor over the tropical Andes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7051-7063.	3.3	52
16	Earth's water reservoirs in a changing climate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190458.	2.1	36
17	Evaluating climate model performance in the tropics with retrievals of water isotopic composition from Aura TES. Geophysical Research Letters, 2014, 41, 6030-6036.	4.0	34
18	A test of the advectionâ€condensation model for subtropical water vapor using stable isotopologue observations from Mauna Loa Observatory, Hawaii. Journal of Geophysical Research, 2012, 117, .	3.3	24

#	Article	IF	Citations
19	Importance of depth and intensity of convection on the isotopic composition of water vapor as seen from IASI and TES Î´D observations. Earth and Planetary Science Letters, 2018, 481, 387-394.	4.4	24
20	A seasonality of Î´D of water vapor (850-500 hPa) observed from space over Jeju Island, Korea. Geosciences Journal, 2013, 17, 87-95.	1.2	16
21	Characteristics of tropical and subtropical atmospheric moistening derived from Lagrangian mass balance constrained by measurements of HDO and H₂O. Journal of Geophysical Research D: Atmospheres, 2013, 118, 54-72.	3.3	15
22	Where Does Moisture Come From Over the Congo Basin?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006024.	3.0	15
23	Satellite Observations of the Tropical Terrestrial Carbon Balance and Interactions With the Water Cycle During the 21st Century. Reviews of Geophysics, 2021, 59, e2020RG000711.	23.0	13
24	Isotopic changes due to convective moistening of the lower troposphere associated with variations in the ENSO and IOD from 2005 to 2006. Tellus, Series B: Chemical and Physical Meteorology, 2022, 67, 26177.	1.6	12
25	Comparison of optimal estimation HDOâˆ•H₂O retrievals from AIRS with ORACLES measurements. Atmospheric Measurement Techniques, 2020, 13, 1825-1834.	3.1	6