

Chris Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,346
citations

394421
19
h-index

454955
30
g-index

51
all docs

51
docs citations

51
times ranked

3551
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020, 586, 248-256.	27.8	814
2	TransCom model simulations of CH ₄ and related species: linking transport, surface flux and chemical loss with CH ₄ variability in the troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12813-12837.	4.9	331
3	Acceleration of global N ₂ O emissions seen from two decades of atmospheric inversion. <i>Nature Climate Change</i> , 2019, 9, 993-998.	18.8	229
4	Impact on short-lived climate forcers increases projected warming due to deforestation. <i>Nature Communications</i> , 2018, 9, 157.	12.8	86
5	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3575-3603.	4.9	83
6	Trends in atmospheric halogen containing gases since 2004. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2552-2566.	2.3	81
7	Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9917-9937.	4.9	68
8	Role of OH variability in the stalling of the global atmospheric CH ₄ growth rate from 1999 to 2006. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7943-7956.	4.9	68
9	Evaluating year-to-year anomalies in tropical wetland methane emissions using satellite CH ₄ observations. <i>Remote Sensing of Environment</i> , 2018, 211, 261-275.	11.0	55
10	A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9163-9187.	4.9	51
11	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 18149-18168.	4.9	51
12	Contribution of regional sources to atmospheric methane over the Amazon Basin in 2010 and 2011. <i>Global Biogeochemical Cycles</i> , 2016, 30, 400-420.	4.9	42
13	Role of regional wetland emissions in atmospheric methane variability. <i>Geophysical Research Letters</i> , 2016, 43, 11,433.	4.0	37
14	Tropical land carbon cycle responses to 2015/16 El Niño as recorded by atmospheric greenhouse gas and remote sensing data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170302.	4.0	37
15	The TOMCAT global chemical transport model v1.6: description of chemical mechanism and model evaluation. <i>Geoscientific Model Development</i> , 2017, 10, 3025-3057.	3.6	35
16	TransCom N ₂ O model inter-comparison “Part 1: Assessing the influence of transport and surface fluxes on tropospheric N ₂ O variability. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4349-4368.	4.9	34
17	Development of a variational flux inversion system (INVICAT v1.0) using the TOMCAT chemical transport model. <i>Geoscientific Model Development</i> , 2014, 7, 2485-2500.	3.6	32
18	Comparison of the HadGEM2 climate-chemistry model against in situ and SCIAMACHY atmospheric methane data. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13257-13280.	4.9	29

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19	Off-line algorithm for calculation of vertical tracer transport in the troposphere due to deep convection. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1093-1114.	4.9	27
20	On the Regional and Seasonal Ozone Depletion Potential of Chlorinated Very Short-Lived Substances. <i>Geophysical Research Letters</i> , 2019, 46, 5489-5498.	4.0	21
21	A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031818.	3.3	18
22	The consolidated European synthesis of CH ₄ and N ₂ O emissions for the European Union and United Kingdom: 1990–2017. <i>Earth System Science Data</i> , 2021, 13, 2307-2362.	9.9	16
23	Exploring constraints on a wetland methane emission ensemble (WetCHARTs) using GOSAT observations. <i>Biogeosciences</i> , 2020, 17, 5669-5691.	3.3	16
24	Using an Inverse Model to Reconcile Differences in Simulated and Observed Global Ethane Concentrations and Trends Between 2008 and 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,262.	3.3	14
25	Large and increasing methane emissions from eastern Amazonia derived from satellite data, 2010–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10643-10669.	4.9	13
26	Exploiting satellite measurements to explore uncertainties in UK bottom-up NO _x emission estimates. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4323-4338.	4.9	9
27	Large Methane Emissions From the Pantanal During Rising Water Levels Revealed by Regularly Measured Lower Troposphere CH ₄ Profiles. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006964.	4.9	8
28	Impact on short-lived climate forcers (SLCFs) from a realistic land-use change scenario via changes in biogenic emissions. <i>Faraday Discussions</i> , 2017, 200, 101-120.	3.2	7
29	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottom-Up and Top-Down Approaches: Informing Future Research and National Inventories. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095264.	4.0	7
30	How Robust Is the Apparent Break-Down of Northern High-Latitude Temperature Control on Spring Carbon Uptake?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091601.	4.0	2