

Chris Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,346
citations

393982

19
h-index

454577

30
g-index

51
all docs

51
docs citations

51
times ranked

3551
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting satellite measurements to explore uncertainties in UK bottom-up NO _x and CO emission estimates. Atmospheric Chemistry and Physics, 2022, 22, 4323-4338.	1.9	9
2	How Robust Is the Apparent Breakdown of Northern High-Latitude Temperature Control on Spring Carbon Uptake?. Geophysical Research Letters, 2021, 48, e2020GL091601.	1.5	2
3	The consolidated European synthesis of CH ₄ and N ₂ O emissions for the European Union and United Kingdom: 1990–2017. Earth System Science Data, 2021, 13, 2307-2362.	3.7	16
4	Large and increasing methane emissions from eastern Amazonia derived from satellite data, 2010–2018. Atmospheric Chemistry and Physics, 2021, 21, 10643-10669.	1.9	13
5	Large Methane Emissions From the Pantanal During Rising Water Levels Revealed by Regularly Measured Lower Troposphere CH ₄ Profiles. Global Biogeochemical Cycles, 2021, 35, e2021GB006964.	1.9	8
6	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottom-Up and Top-Down Approaches: Informing Future Research and National Inventories. Geophysical Research Letters, 2021, 48, e2021GL095264.	1.5	7
7	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	13.7	814
8	A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031818.	1.2	18
9	Exploring constraints on a wetland methane emission ensemble (WetCHARTs) using GOSAT observations. Biogeosciences, 2020, 17, 5669-5691.	1.3	16
10	On the Regional and Seasonal Ozone Depletion Potential of Chlorinated Very Short-Lived Substances. Geophysical Research Letters, 2019, 46, 5489-5498.	1.5	21
11	Acceleration of global N ₂ O emissions seen from two decades of atmospheric inversion. Nature Climate Change, 2019, 9, 993-998.	8.1	229
12	Impact on short-lived climate forcers increases projected warming due to deforestation. Nature Communications, 2018, 9, 157.	5.8	86
13	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. Atmospheric Chemistry and Physics, 2018, 18, 18149-18168.	1.9	51
14	Tropical land carbon cycle responses to 2015/16 El Niño as recorded by atmospheric greenhouse gas and remote sensing data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170302.	1.8	37
15	Using an Inverse Model to Reconcile Differences in Simulated and Observed Global Ethane Concentrations and Trends Between 2008 and 2014. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,262.	1.2	14
16	Evaluating year-to-year anomalies in tropical wetland methane emissions using satellite CH ₄ observations. Remote Sensing of Environment, 2018, 211, 261-275.	4.6	55
17	Impact on short-lived climate forcers (SLCFs) from a realistic land-use change scenario via changes in biogenic emissions. Faraday Discussions, 2017, 200, 101-120.	1.6	7
18	The TOMCAT global chemical transport model v1.6: description of chemical mechanism and model evaluation. Geoscientific Model Development, 2017, 10, 3025-3057.	1.3	35

#	ARTICLE	IF	CITATIONS
19	Contribution of regional sources to atmospheric methane over the Amazon Basin in 2010 and 2011. <i>Global Biogeochemical Cycles</i> , 2016, 30, 400-420.	1.9	42
20	Role of regional wetland emissions in atmospheric methane variability. <i>Geophysical Research Letters</i> , 2016, 43, 11,433.	1.5	37
21	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.	1.9	51
22	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.	1.9	68
23	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.	1.9	83
24	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.	1.3	32
25	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.	1.9	29
26	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.	1.9	34
27	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.	1.9	68
28	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.	1.9	27
29	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.	1.9	331
30	Trends in atmospheric halogen containing gases since 2004. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2552-2566.	1.1	81