

# Claire Granier

## List of Publications by Year in descending order

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53  
papers

6,034  
citations

126708

33  
h-index

189595

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

5935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increase in tropospheric nitrogen dioxide over China observed from space. <i>Nature</i> , 2005, 437, 129-132.	13.7	1,300
2	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	848
3	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980â€™2010 period. <i>Climatic Change</i> , 2011, 109, 163-190.	1.7	740
4	Global Wildland Fire Emission Model (GWEM): Evaluating the use of global area burnt satellite data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	256
5	Forty years of improvements in European air quality: regional policy-industry interactions with global impacts. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3825-3841.	1.9	255
6	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	171
7	Impact of heterogeneous chemistry on model predictions of ozone changes. <i>Journal of Geophysical Research</i> , 1992, 97, 18015-18033.	3.3	134
8	Chemical characterization of air pollution in Eastern China and the Eastern United States. <i>Atmospheric Environment</i> , 2006, 40, 2607-2625.	1.9	134
9	Atmospheric impact of NOx emissions by subsonic aircraft: A three-dimensional model study. <i>Journal of Geophysical Research</i> , 1996, 101, 1423-1428.	3.3	122
10	The impact of natural and anthropogenic hydrocarbons on the tropospheric budget of carbon monoxide. <i>Atmospheric Environment</i> , 2000, 34, 5255-5270.	1.9	119
11	Past and future changes in global tropospheric ozone: Impact on radiative forcing. <i>Geophysical Research Letters</i> , 1998, 25, 3807-3810.	1.5	118
12	Future changes in stratospheric ozone and the role of heterogeneous chemistry. <i>Nature</i> , 1990, 348, 626-628.	13.7	113
13	Future Changes in Biogenic Isoprene Emissions: How Might They Affect Regional and Global Atmospheric Chemistry?. <i>Earth Interactions</i> , 2006, 10, 1-19.	0.7	110
14	Two-dimensional simulation of Pinatubo aerosol and its effect on stratospheric ozone. <i>Journal of Geophysical Research</i> , 1994, 99, 20545.	3.3	109
15	Impact of recent total ozone changes on tropospheric ozone photodissociation, hydroxyl radicals, and methane trends. <i>Geophysical Research Letters</i> , 1992, 19, 465-467.	1.5	98
16	Global tropospheric NO2 column distributions: Comparing three-dimensional model calculations with GOME measurements. <i>Journal of Geophysical Research</i> , 2001, 106, 12643-12660.	3.3	95
17	Inverse modeling of carbon monoxide surface emissions using Climate Monitoring and Diagnostics Laboratory network observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 10-1.	3.3	86
18	The chemical composition of ancient atmospheres: A model study constrained by ice core data. <i>Journal of Geophysical Research</i> , 1995, 100, 14291.	3.3	84

#	ARTICLE	IF	CITATIONS
19	Impact of Climate Change on the Future Chemical Composition of the Global Troposphere. <i>Journal of Climate</i> , 2006, 19, 3932-3951.	1.2	81
20	Global biogenic volatile organic compound emissions in the ORCHIDEE and MEGAN models and sensitivity to key parameters. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14169-14202.	1.9	80
21	Light absorbing carbon emissions from commercial shipping. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	71
22	Analysis of long-term observations of NO <sub>x</sub> and CO in megacities and application to constraining emissions inventories. <i>Geophysical Research Letters</i> , 2016, 43, 9920-9930.	1.5	69
23	Ozone pollution from future ship traffic in the Arctic northern passages. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	66
24	Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. <i>Science Advances</i> , 2020, 6, .	4.7	64
25	Changes in global air pollutant emissions during the COVID-19 pandemic: a dataset for atmospheric modeling. <i>Earth System Science Data</i> , 2021, 13, 4191-4206.	3.7	57
26	Global Changes in Secondary Atmospheric Pollutants During the 2020 COVID-19 Pandemic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034213.	1.2	54
27	Evaluation of anthropogenic air pollutant emission inventories for South America at national and city scale. <i>Atmospheric Environment</i> , 2020, 235, 117606.	1.9	45
28	Possible causes for the 1990-1993 decrease in the global tropospheric CO abundances: A three-dimensional sensitivity study. <i>Atmospheric Environment</i> , 1996, 30, 1673-1682.	1.9	44
29	Diverse response of surface ozone to COVID-19 lockdown in China. <i>Science of the Total Environment</i> , 2021, 789, 147739.	3.9	44
30	EURODELTA-Trends, a multi-model experiment of air quality hindcast in Europe over 1990-2010. <i>Geoscientific Model Development</i> , 2017, 10, 3255-3276.	1.3	41
31	Copernicus Atmosphere Monitoring Service TEMPOral profiles (CAMS-TEMPO): global and European emission temporal profile maps for atmospheric chemistry modelling. <i>Earth System Science Data</i> , 2021, 13, 367-404.	3.7	41
32	The impact of road traffic on global tropospheric ozone. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	38
33	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14617-14647.	1.9	34
34	Ozone and other trace gases in the Arctic and Antarctic regions: Three-dimensional model simulations. <i>Journal of Geophysical Research</i> , 1991, 96, 2995-3011.	3.3	33
35	High-resolution biogenic global emission inventory for the time period 2000-2019 for air quality modelling. <i>Earth System Science Data</i> , 2022, 14, 251-270.	3.7	32
36	Global impact of road traffic on atmospheric chemical composition and on ozone climate forcing. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	26

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37	New Directions: GEIA's 2020 vision for better air emissions information. <i>Atmospheric Environment</i> , 2013, 81, 710-712.	1.9	25
38	The Impact of Biomass Burning on the Global Budget of Ozone and Ozone Precursors. <i>Advances in Global Change Research</i> , 2000, , 69-85.	1.6	25
39	Influence of anthropogenic emission inventories on simulations of air quality in China during winter and summer 2010. <i>Atmospheric Environment</i> , 2019, 198, 236-256.	1.9	24
40	The impact of high altitude aircraft on the ozone layer in the stratosphere. <i>Journal of Atmospheric Chemistry</i> , 1994, 18, 103-128.	1.4	23
41	Flaring emissions in Africa: Distribution, evolution and comparison with current inventories. <i>Atmospheric Environment</i> , 2019, 199, 423-434.	1.9	21
42	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1743-E1760.	1.7	21
43	African anthropogenic emissions inventory for gases and particles from 1990 to 2015. <i>Earth System Science Data</i> , 2021, 13, 3691-3705.	3.7	17
44	Model study of polar stratospheric clouds and their effect on stratospheric ozone: 2. Model results. <i>Journal of Geophysical Research</i> , 1996, 101, 12575-12584.	3.3	14
45	Atmospheric Impacts of COVID-19 on NO <sub>x</sub> and VOC Levels over China Based on TROPOMI and IASI Satellite Data and Modeling. <i>Atmosphere</i> , 2021, 12, 946.	1.0	13
46	Effects of interannual variation of temperature on heterogeneous reactions and stratospheric ozone. <i>Journal of Geophysical Research</i> , 1997, 102, 23519-23527.	3.3	10
47	Model study of polar stratospheric clouds and their effect on stratospheric ozone: 1. Model description. <i>Journal of Geophysical Research</i> , 1996, 101, 12567-12574.	3.3	7
48	Sensitivity of washout on HNO <sub>3</sub> /NO <sub>x</sub> ratio in atmospheric chemistry transport models. <i>Journal of Geophysical Research</i> , 2001, 106, 3125-3132.	3.3	6
49	New Directions: Toward a community emissions approach. <i>Atmospheric Environment</i> , 2012, 51, 333-334.	1.9	5
50	Mitigation, Adaptation or Climate Engineering?. <i>Theoretical Inquiries in Law</i> , 2013, 14, 1-20.	0.1	3
51	Anthropogenic Emissions in Asia. , 2017, , 107-133.		2
52	Predicting Air Pollution in East Asia. , 2017, , 387-403.		1
53	Data Assimilation and Inverse Methods. <i>Advances in Global Change Research</i> , 2004, , 477-515.	1.6	0