

Didier A Hauglustaine

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papers

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112
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114
ext. papers

14,166
ext. citations

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L-index

#	Paper	IF	Citations
113	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , 2013 , 40, 2123-2165	4.2	1185
112	Contribution of anthropogenic and natural sources to atmospheric methane variability. <i>Nature</i> , 2006 , 443, 439-43	50.4	762
111	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	731
110	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006 , 111,		625
109	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1853-1877	6.8	598
108	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. <i>Journal of Geophysical Research</i> , 2009 , 114,		378
107	MOZART, a global chemical transport model for ozone and related chemical tracers: 1. Model description. <i>Journal of Geophysical Research</i> , 1998 , 103, 28265-28289		360
106	Interactive chemistry in the Laboratoire de Météorologie Dynamique general circulation model: Description and background tropospheric chemistry evaluation. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		305
105	The global atmospheric environment for the next generation. <i>Environmental Science & Technology</i> , 2006 , 40, 3586-94	10.3	298
104	Impact of climate variability and land use changes on global biogenic volatile organic compound emissions. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2129-2146	6.8	259
103	MOZART, a global chemical transport model for ozone and related chemical tracers: 2. Model results and evaluation. <i>Journal of Geophysical Research</i> , 1998 , 103, 28291-28335		231
102	Source attribution of the changes in atmospheric methane for 2006-2008. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3689-3700	6.8	224
101	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005 , 110,		221
100	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006 , 111,		220
99	Aviation radiative forcing in 2000: An update on IPCC (1999). <i>Meteorologische Zeitschrift</i> , 2005 , 14, 555-561		216
98	Global modeling of heterogeneous chemistry on mineral aerosol surfaces: Influence on tropospheric ozone chemistry and comparison to observations. <i>Journal of Geophysical Research</i> , 2004 , 109,		199
97	European scientific assessment of the atmospheric effects of aircraft emissions. <i>Atmospheric Environment</i> , 1998 , 32, 2329-2418	5.3	193

96	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002010	7.1	188
95	Interactive chemistry in the Laboratoire de Météorologie Dynamique general circulation model: model description and impact analysis of biogenic hydrocarbons on tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2273-2319	6.8	180
94	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004 , 109,		177
93	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	152
92	The importance of atmospheric chemistry in the calculation of radiative forcing on the climate system. <i>Journal of Geophysical Research</i> , 1994 , 99, 1173		152
91	Change in global aerosol composition since preindustrial times. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5143-5162	6.8	147
90	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016 , 531, 357-61	50.4	145
89	Variability in surface ozone background over the United States: Implications for air quality policy. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		145
88	Data composites of airborne observations of tropospheric ozone and its precursors. <i>Journal of Geophysical Research</i> , 2000 , 105, 20497-20538		144
87	Aerosol and ozone changes as forcing for climate evolution between 1850 and 2100. <i>Climate Dynamics</i> , 2013 , 40, 2223-2250	4.2	140
86	Past and future changes in biogenic volatile organic compound emissions simulated with a global dynamic vegetation model. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	129
85	Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 575-599	6.8	126
84	Two decades of OH variability as inferred by an inversion of atmospheric transport and chemistry of methyl chloroform. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2635-2656	6.8	122
83	A global model simulation of present and future nitrate aerosols and their direct radiative forcing of climate. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11031-11063	6.8	119
82	Multi-model ensemble simulations of tropospheric NO ₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2943-2979	6.8	118
81	The impact of traffic emissions on atmospheric ozone and OH: results from QUANTIFY. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3113-3136	6.8	114
80	The impact of lateral carbon fluxes on the European carbon balance. <i>Biogeosciences</i> , 2008 , 5, 1259-1271	4.6	104
79	Multi-model simulations of the impact of international shipping on Atmospheric Chemistry and Climate in 2000 and 2030. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 757-780	6.8	104

78	ACE-FTS observation of a young biomass burning plume: first reported measurements of C ₂ H ₄ , C ₃ H ₆ , H ₂ O, H ₂ CO and PAN by infrared occultation from space. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5437-5446	6.8	104
77	Past and future changes in global tropospheric ozone: Impact on radiative forcing. <i>Geophysical Research Letters</i> , 1998 , 25, 3807-3810	4.9	101
76	Climatologies of NO _x and NO _y : A comparison of data and models. <i>Atmospheric Environment</i> , 1997 , 31, 1851-1904	5.3	99
75	Role of methane and biogenic volatile organic compound sources in late glacial and Holocene fluctuations of atmospheric methane concentrations. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	99
74	Radiative forcing in the 21st century due to ozone changes in the troposphere and the lower stratosphere. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		99
73	HNO ₃ /NO _x ratio in the remote troposphere During MLOPEX 2: Evidence for nitric acid reduction on carbonaceous aerosols?. <i>Geophysical Research Letters</i> , 1996 , 23, 2609-2612	4.9	99
72	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017 , 23, 4854-4872	11.4	95
71	Multi-species inversion of CH ₄ , CO and H ₂ emissions from surface measurements. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5281-5297	6.8	92
70	Seasonal characteristics of tropospheric ozone production and mixing ratios over East Asia: A global three-dimensional chemical transport model analysis. <i>Journal of Geophysical Research</i> , 2000 , 105, 17895-17910		84
69	Future tropospheric ozone simulated with a climate-chemistry-biosphere model. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	82
68	Response of climate to regional emissions of ozone precursors: sensitivities and warming potentials. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005 , 57, 283-304	3.3	81
67	Operational trace gas retrieval algorithm for the Infrared Atmospheric Sounding Interferometer. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		80
66	Evolution of tropospheric ozone under anthropogenic activities and associated radiative forcing of climate. <i>Journal of Geophysical Research</i> , 2001 , 106, 32337-32360		77
65	Human mortality effects of future concentrations of tropospheric ozone. <i>Comptes Rendus - Geoscience</i> , 2007 , 339, 775-783	1.4	64
64	On the NO ₂ + soot reaction in the atmosphere. <i>Journal of Geophysical Research</i> , 1999 , 104, 1729-1736		64
63	Sources, transport and deposition of iron in the global atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6247-6270	6.8	62
62	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7254-7283	4.4	62
61	A three-dimensional model of molecular hydrogen in the troposphere. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 4-1-ACH 4-16		61

60	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	6.8	58
59	Future global tropospheric ozone changes and impact on European air quality. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	58
58	Comparison between global chemistry transport model results and Measurement of Ozone and Water Vapor by Airbus In-Service Aircraft (MOZAIC) data. <i>Journal of Geophysical Research</i> , 2000 , 105, 1503-1525		57
57	Are decadal anthropogenic emission reductions in Europe consistent with surface ozone observations?. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	54
56	CO emission and export from Asia: an analysis combining complementary satellite measurements (MOPITT, SCIAMACHY and ACE-FTS) with global modeling. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5187-5204	6.8	53
55	Naturally driven variability in the global secondary organic aerosol over a decade. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1891-1904	6.8	53
54	Effects of urban land expansion on the regional meteorology and air quality of eastern China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8597-8614	6.8	52
53	Observed and model-calculated photostationary state at Mauna Loa Observatory during MLOPEX 2. <i>Journal of Geophysical Research</i> , 1996 , 101, 14681-14696		52
52	African CO emissions between years 2000 and 2006 as estimated from MOPITT observations. <i>Biogeosciences</i> , 2009 , 6, 103-111	4.6	51
51	An evaluation of the performance of chemistry transport models by comparison with research aircraft observations. Part 1: Concepts and overall model performance. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1609-1631	6.8	51
50	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Niño. <i>Geophysical Research Letters</i> , 2016 , 43, 10,472-10,479	4.9	50
49	A multi-scale health impact assessment of air pollution over the 21st century. <i>Science of the Total Environment</i> , 2015 , 514, 439-49	10.2	46
48	Implementation of the CMIP6 Forcing Data in the IPSL-CM6A-LR Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001940	7.1	45
47	Intercomparison of tropospheric ozone models: Ozone transport in a complex tropopause folding event. <i>Journal of Geophysical Research</i> , 2003 , 108,		45
46	On the Role of Lightning NOx in the Formation of Tropospheric Ozone Plumes: A Global Model Perspective. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 277-294	3.2	44
45	An evaluation of the performance of chemistry transport models - Part 2: Detailed comparison with two selected campaigns. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 107-129	6.8	43
44	The influence of biogenic emissions on upper-tropospheric methanol as revealed from space. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 6119-6129	6.8	41
43	Air quality in Europe during the summer of 2003 as a prototype of air quality in a warmer climate. <i>Comptes Rendus - Geoscience</i> , 2007 , 339, 747-763	1.4	41

42	Chemical compounds in the remote Pacific troposphere: Comparison between MLOPEX measurements and chemical transport model calculations. <i>Journal of Geophysical Research</i> , 1996 , 101, 14795-14813		40
41	A sensitivity simulation of tropospheric ozone changes due to the 1997 Indonesian fire emissions. <i>Geophysical Research Letters</i> , 1999 , 26, 3305-3308	4.9	39
40	Influence of anthropogenic aerosol deposition on the relationship between oceanic productivity and warming. <i>Geophysical Research Letters</i> , 2015 , 42, 10745-10754	4.9	35
39	Parameterization of plume chemistry into large-scale atmospheric models: Application to aircraft NOx emissions. <i>Journal of Geophysical Research</i> , 2009 , 114,		33
38	Present and future impact of aircraft, road traffic and shipping emissions on global tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11681-11705	6.8	33
37	Changes in atmospheric sulfur burdens and concentrations and resulting radiative forcings under IPCC SRES emission scenarios for 1990-2100. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		33
36	Evaluation of SF6, C2Cl4, and CO to approximate fossil fuel CO2 in the Northern Hemisphere using a chemistry transport model. <i>Journal of Geophysical Research</i> , 2006 , 111,		33
35	Radiative forcing due to increased tropospheric ozone concentrations. <i>Atmospheric Environment</i> , 1996 , 30, 1641-1646	5.3	33
34	Assessment of the impact of oxidation processes on indoor air pollution using the new time-resolved INCA-Indoor model. <i>Atmospheric Environment</i> , 2015 , 122, 521-530	5.3	32
33	The compact Earth system model OSCAR v2.2: description and first results. <i>Geoscientific Model Development</i> , 2017 , 10, 271-319	6.3	30
32	Relative contributions of biomass burning emissions and atmospheric transport to carbon monoxide interannual variability. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	29
31	On the role of atmospheric chemistry in the global CO2 budget. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	29
30	Photochemistry and budget of ozone during the Mauna Loa Observatory Photochemistry Experiment (MLOPEX 2). <i>Journal of Geophysical Research</i> , 1999 , 104, 30275-30307		29
29	Measurements of NOx and PAN and estimates of O3 production over the seasons during Mauna Loa Observatory Photochemistry Experiment 2. <i>Journal of Geophysical Research</i> , 1998 , 103, 8323-8339		28
28	Impact of present aircraft emissions of nitrogen oxides on tropospheric ozone and climate forcing. <i>Geophysical Research Letters</i> , 1994 , 21, 2031-2034	4.9	28
27	Summertime tropospheric ozone over China simulated with a regional chemical transport model 1. Model description and evaluation. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 27-1		26
26	Assimilation of carbon monoxide measured from satellite in a three-dimensional chemistry-transport model. <i>Journal of Geophysical Research</i> , 2001 , 106, 15385-15394		24
25	Combining livestock production information in a process-based vegetation model to reconstruct the history of grassland management. <i>Biogeosciences</i> , 2016 , 13, 3757-3776	4.6	23

24	Summertime tropospheric ozone over China simulated with a regional chemical transport model 2. Source contributions and budget. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 2-1		21
23	Assimilation of IASI satellite CO fields into a global chemistry transport model for validation against aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4493-4512	6.8	20
22	Impact of the Asian monsoon anticyclone on the variability of mid-to-upper tropospheric methane above the Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11427-11446	6.8	19
21	Identification of the major HO radical pathways in an indoor air environment. <i>Indoor Air</i> , 2017 , 27, 434-442	5.4	15
20	A three-dimensional synthesis inversion of the molecular hydrogen cycle: Sources and sinks budget and implications for the soil uptake. <i>Journal of Geophysical Research</i> , 2011 , 116,		15
19	The global distribution of lightning NO _x simulated on-line in a general circulation model. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 2001 , 26, 585-591		15
18	Assessment of indoor HONO formation mechanisms based on in situ measurements and modeling. <i>Indoor Air</i> , 2017 , 27, 443-451	5.4	14
17	The faint young sun climatic paradox: A simulation with an interactive seasonal climate-sea ice model. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992 , 97, 133-150	2.9	14
16	Daily CO Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. <i>Innovation(China)</i> , 2020 , 1, 100062	17.8	14
15	Impact of global climate change on regional air quality: Introduction to the thematic issue. <i>Comptes Rendus - Geoscience</i> , 2007 , 339, 703-708	1.4	12
14	Relative impacts of worldwide tropospheric ozone changes and regional emission modifications on European surface-ozone levels. <i>Comptes Rendus - Geoscience</i> , 2007 , 339, 709-720	1.4	11
13	A pro-active stratospheric ozone protection scenario. <i>Global Environmental Change</i> , 2003 , 13, 43-49	10.1	10
12	A new Himalayan ice core CH ₄ record: possible hints at the preindustrial latitudinal gradient. <i>Climate of the Past</i> , 2013 , 9, 2549-2554	3.9	9
11	Boundary layer ozone pollution caused by future aircraft emissions. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	5
10	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
9	Global modelling of soil carbonyl sulfide exchanges. <i>Biogeosciences</i> , 2022 , 19, 2427-2463	4.6	4
8	Summertime upper tropospheric nitrous oxide over the Mediterranean as a footprint of Asian emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4746-4759	4.4	3
7	Chapter 2.13 Modelling regional air quality over decades: Past and future trends in photochemical smog. <i>Developments in Environmental Science</i> , 2007 , 6, 210-219		3

6	The compact Earth system model OSCAR v2.2: description and first results 2016 ,	2
5	On the contribution of global aviation to the CO ₂ radiative forcing of climate. <i>Atmospheric Environment</i> , 2021 , 267, 118762	5.3 0
4	Recent ozone trends in the Chinese free troposphere: role of the local emission reductions and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16001-16025	6.8 0
3	Corrigendum to "Source attribution of the changes in atmospheric methane for 2006-2008" published in Atmos. Chem. Phys., 11, 3689-3700, 2011. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9381-9382	6.8
2	A sensitivity study of the role of continental location and area on Paleozoic climate. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992 , 97, 311-323	2.9
1	Evaluation and Global-Scale Observation of Nitrous Oxide from IASI on Metop-A. <i>Remote Sensing</i> , 2022 , 14, 1403	5