

# Carlos Ordoez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62 papers	2,467 citations	25 h-index	49 g-index
87 ext. papers	2,863 ext. citations	5.9 avg, IF	4.76 L-index

#	Paper	IF	Citations
62	Nitrogen oxide measurements at rural sites in Switzerland: Bias of conventional measurement techniques. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		187
61	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12239-12271	6.8	160
60	Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1423-1447	6.8	150
59	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 3939-3949	6.8	138
58	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 1187-1203	6.8	133
57	Intercomparison of four different in-situ techniques for ambient formaldehyde measurements in urban air. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 2881-2900	6.8	124
56	Iodine chemistry in the troposphere and its effect on ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 13119-13143	6.8	117
55	Influence of altitude on ozone levels and variability in the lower troposphere: a ground-based study for western Europe over the period 2001-2004. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4311-4326	6.8	108
54	Strong influence of lowermost stratospheric ozone on lower tropospheric background ozone changes over Europe. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	102
53	Air pollution during the 2003 European heat wave as seen by MOZAIC airliners. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2133-2150	6.8	97
52	Real-world emission factors of fine and ultrafine aerosol particles for different traffic situations in Switzerland. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 8341-50	10.3	86
51	Iodine's impact on tropospheric oxidants: a global model study in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1161-1186	6.8	79
50	Air quality modelling using the Met Office Unified Model (AQUUM OS24-26): model description and initial evaluation. <i>Geoscientific Model Development</i> , <b>2013</b> , 6, 353-372	6.3	77
49	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11609-11617	6.8	58
48	Early spring near-surface ozone in Europe during the COVID-19 shutdown: Meteorological effects outweigh emission changes. <i>Science of the Total Environment</i> , <b>2020</b> , 747, 141322	10.2	58
47	Evaluating global emission inventories of biogenic bromocarbons. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11819-11838	6.8	56
46	Global model simulations of air pollution during the 2003 European heat wave. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 789-815	6.8	56

45	Comparison of 7 years of satellite-borne and ground-based tropospheric NO <sub>2</sub> measurements around Milan, Italy. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		54
44	The European 2016/17 Drought. <i>Journal of Climate</i> , <b>2019</b> , 32, 3169-3187	4.4	50
43	Description and evaluation of the UKCA stratosphere-troposphere chemistry scheme (StratTrop v1.0) implemented in UKESM1. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 1223-1266	6.3	49
42	Current status of the ability of the GEMS/MACC models to reproduce the tropospheric CO vertical distribution as measured by MOZAIC. <i>Geoscientific Model Development</i> , <b>2010</b> , 3, 501-518	6.3	49
41	Iodine chemistry in the eastern Pacific marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 887-904	4.4	42
40	Aerosol and NO <sub>x</sub> emission factors and submicron particle number size distributions in two road tunnels with different traffic regimes. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 2215-2230	6.8	39
39	Modelling future changes to the stratospheric source gas injection of biogenic bromocarbons. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	34
38	Volatile Organic Compounds in the Po Basin. Part A: Anthropogenic VOCs. <i>Journal of Atmospheric Chemistry</i> , <b>2005</b> , 51, 271-291	3.2	26
37	Air stagnation in Europe: Spatiotemporal variability and impact on air quality. <i>Science of the Total Environment</i> , <b>2018</b> , 645, 1238-1252	10.2	25
36	Spatial clustering and meteorological drivers of summer ozone in Europe. <i>Atmospheric Environment</i> , <b>2017</b> , 167, 496-510	5.3	25
35	Stratospheric Connection to the Abrupt End of the 2016/2017 Iberian Drought. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,639-12,646	4.9	23
34	Regional responses of surface ozone in Europe to the location of high-latitude blocks and subtropical ridges. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3111-3131	6.8	20
33	Application of a statistical post-processing technique to a gridded, operational, air quality forecast. <i>Atmospheric Environment</i> , <b>2014</b> , 98, 385-393	5.3	19
32	Volatile Organic Compounds in the Po Basin. Part B: Biogenic VOCs. <i>Journal of Atmospheric Chemistry</i> , <b>2005</b> , 51, 293-315	3.2	19
31	Evaluation of a regional air quality model using satellite column NO <sub>2</sub> : treatment of observation errors and model boundary conditions and emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5611-5626	6.8	18
30	A photochemical modeling study of ozone and formaldehyde generation and budget in the Po basin. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		18
29	The influence of synoptic weather regimes on UK air quality: regional model studies of tropospheric column NO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11201-11215	6.8	17
28	Photochemical modelling in the Po basin with focus on formaldehyde and ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 121-137	6.8	17

27	Impact of weather regimes on wind power variability in western Europe. <i>Applied Energy</i> , <b>2020</b> , 264, 114731-7	11.7	15
26	Distinct influences of large-scale circulation and regional feedbacks in two exceptional 2019 European heatwaves. <i>Communications Earth &amp; Environment</i> , <b>2020</b> , 1,	6.1	12
25	The differing impact of air stagnation on summer ozone across Europe. <i>Atmospheric Environment</i> , <b>2019</b> , 219, 117062	5.3	12
24	Influence of various emission scenarios on ozone in Europe. <i>Ecological Modelling</i> , <b>2008</b> , 217, 209-218	3	10
23	Potential impacts of emissions associated with unconventional hydrocarbon extraction on UK air quality and human health. <i>Air Quality, Atmosphere and Health</i> , <b>2018</b> , 11, 627-637	5.6	10
22	Strong signatures of high-latitude blocks and subtropical ridges in winter PM10 over Europe. <i>Atmospheric Environment</i> , <b>2017</b> , 167, 49-60	5.3	9
21	Evaluating global emission inventories of biogenic bromocarbons		7
20	From Operational Ceilometer Network to Operational Lidar Network. <i>EPJ Web of Conferences</i> , <b>2016</b> , 119, 27007	0.3	7
19	Role of the position of the North Atlantic jet in the variability and odds of extreme PM10 in Europe. <i>Atmospheric Environment</i> , <b>2019</b> , 210, 35-46	5.3	6
18	Iodine chemistry in the troposphere and its effect on ozone		6
17	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere		5
16	Assessing the value of air stagnation indices to reproduce PM10 variability in Europe. <i>Atmospheric Research</i> , <b>2021</b> , 248, 105258	5.4	5
15	Air quality modelling using the Met Office Unified Model: model description and initial evaluation <b>2012</b> ,		4
14	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources		4
13	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003		4
12	Coupling Global Atmospheric Chemistry Transport Models to ECMWF Integrated Forecasts System for Forecast and Data Assimilation Within GEMS <b>2010</b> , 109-123		3
11	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem <b>2016</b> ,		3
10	Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources		2

9	Iodine <sup>+</sup> impact on tropospheric oxidants: a global model study in GEOS-Chem		2
8	Global model simulations of air pollution during the 2003 European heat wave		2
7	On the variability of ozone in the equatorial eastern Pacific boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,086-11,103	4.4	2
6	Linking air stagnation in Europe with the synoptic- to large-scale atmospheric circulation. <i>Weather and Climate Dynamics</i> , <b>2021</b> , 2, 675-694	3.3	2
5	Air pollution during the 2003 European heat wave as seen by MOZAIC airliners		1
4	Modelling UK Air Quality for AQMEII2 with the Online Forecast Model AQUM. <i>Springer Proceedings in Complexity</i> , <b>2014</b> , 467-473	0.3	1
3	Impact of climate change on Spanish electricity demand. <i>Climatic Change</i> , <b>2021</b> , 165, 1	4.5	1
2	A storyline view of the projected role of remote drivers on summer air stagnation in Europe and the United States. <i>Environmental Research Letters</i> , <b>2022</b> , 17, 014026	6.2	0
1	The impact of large-scale circulation on daily fine particulate matter (PM <sub>2.5</sub> ) over major populated regions of China in winter. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 6471-6487	6.8	0