

Fiona M O'connor

List of Publications by Year in descending order

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95
papers

8,587
citations

76196

40
h-index

51492

86
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142
all docs

142
docs citations

142
times ranked

9377
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. <i>Environmental Research Letters</i> , 2022, 17, 024014.	2.2	27
2	Tropospheric ozone changes and ozone sensitivity from the present day to the future under shared socio-economic pathways. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1209-1227.	1.9	10
3	The role of future anthropogenic methane emissions in air quality and climate. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	18
4	Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3507-3524.	1.9	10
5	Air quality improvements are projected to weaken the Atlantic meridional overturning circulation through radiative forcing effects. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	5
6	Description and Evaluation of an Emission-Driven and Fully Coupled Methane Cycle in UKESM1. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	9
7	Attribution of Stratospheric and Tropospheric Ozone Changes Between 1850 and 2014 in CMIP6 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
8	Using Machine Learning to Make Computationally Inexpensive Projections of 21st Century Stratospheric Column Ozone Changes in the Tropics. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	1
9	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 853-874.	1.9	65
10	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4187-4218.	1.9	89
11	Influence of the El Niño–Southern Oscillation on entry stratospheric water vapor in coupled chemistry–ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3725-3740.	1.9	8
12	The Common Representative Intermediates Mechanism Version 2 in the United Kingdom Chemistry and Aerosols Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002420.	1.3	6
13	Regional Features of Long-Term Exposure to PM _{2.5} Air Quality over Asia under SSP Scenarios Based on CMIP6 Models. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6817.	1.2	10
14	Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9669-9679.	1.9	8
15	Future air pollution related health burdens associated with RCP emission changes in the UK. <i>Science of the Total Environment</i> , 2021, 773, 145635.	3.9	6
16	Contrasting chemical environments in summertime for atmospheric ozone across major Chinese industrial regions: the effectiveness of emission control strategies. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10689-10706.	1.9	18
17	Evaluation of natural aerosols in CRESCENDO Earth system models (ESMs): mineral dust. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10295-10335.	1.9	20
18	Methane removal and the proportional reductions in surface temperature and ozone. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20210104.	1.6	33

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19	Atmospheric methane removal: a research agenda. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200454.	1.6	44
20	Assessment of pre-industrial to present-day anthropogenic climate forcing in UKESM1. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1211-1243.	1.9	29
21	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1105-1126.	1.9	39
22	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model. <i>Geoscientific Model Development</i> , 2021, 14, 6515-6539.	1.3	5
23	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088295.	1.5	16
24	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	44
25	The Impacts of Aerosol Emissions on Historical Climate in UKESM1. <i>Atmosphere</i> , 2020, 11, 1095.	1.0	5
26	Implementation of U.K. Earth System Models for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001946.	1.3	83
27	Global sensitivity analysis of chemistry-climate model budgets of tropospheric ozone and OH: exploring model diversity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4047-4058.	1.9	38
28	Description and evaluation of the UKCA stratosphere-troposphere chemistry scheme (StratTrop v1). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1091-1109.	1.3	109
29	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12905-12920.	1.9	55
30	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14547-14579.	1.9	105
31	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9591-9618.	1.9	149
32	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9641-9663.	1.9	30
33	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2020, 13, 6383-6423.	1.3	83
34	Ultraviolet Radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10087-10110.		5
35	300 years of tropospheric ozone changes using CMIP6 scenarios with a parameterised approach. <i>Atmospheric Environment</i> , 2019, 213, 686-698.	1.9	22
36	Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9253-9268.	1.9	15

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37	The roles of volatile organic compound deposition and oxidation mechanisms in determining secondary organic aerosol production: a global perspective using the UKCA chemistry-climate model (v8.4). <i>Geoscientific Model Development</i> , 2019, 12, 2539-2569.	1.3	4
38	Meteorological drivers and mortality associated with O3 and PM2.5 air pollution episodes in the UK in 2006. <i>Atmospheric Environment</i> , 2019, 213, 699-710.	1.9	21
39	The Impact of Prescribed Ozone in Climate Projections Run With HadGEM3-GC3.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3443-3453.	1.3	20
40	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10087-10110.	1.9	22
41	The impact of climate mitigation measures on near term climate forcers. <i>Environmental Research Letters</i> , 2019, 14, 104013.	2.2	3
42	UKESM1: Description and Evaluation of the U.K. Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4513-4558.	1.3	448
43	Introduction to the special issue "In-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)". <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7519-7546.	1.9	95
44	The Impact of Changes in Cloud Water pH on Aerosol Radiative Forcing. <i>Geophysical Research Letters</i> , 2019, 46, 4039-4048.	1.5	31
45	Inter-model comparison of global hydroxyl radical (OH) distributions and their impact on atmospheric methane over the 2000-2016 period. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13701-13723.	1.9	52
46	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. <i>Nature Communications</i> , 2018, 9, 206.	5.8	69
47	Tropospheric ozone in CCMI models and Gaussian process emulation to understand biases in the SOCOLv3 chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16155-16172.	1.9	27
48	The influence of model spatial resolution on simulated ozone and fine particulate matter for Europe: implications for health impact assessments. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5765-5784.	1.9	27
49	The impact of future emission policies on tropospheric ozone using a parameterised approach. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8953-8978.	1.9	47
50	No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11277-11287.	1.9	41
51	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. <i>Environmental Research Letters</i> , 2018, 13, 054024.	2.2	38
52	The impact of biogenic, anthropogenic, and biomass burning volatile organic compound emissions on regional and seasonal variations in secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7393-7422.	1.9	71
53	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	1.9	128
54	Revisiting the Mystery of Recent Stratospheric Temperature Trends. <i>Geophysical Research Letters</i> , 2018, 45, 9919-9933.	1.5	51

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55	Climate Change Impacts on Air Pollution in Northern Europe. Springer Climate, 2018, , 49-67.	0.3	1
56	No Robust Evidence of Future Changes in Major Stratospheric Sudden Warmings: A Multi-model Assessment from CCMI. Atmospheric Chemistry and Physics, 2018, 18, 11277-11287.	1.9	10
57	Understanding the glacial methane cycle. Nature Communications, 2017, 8, 14383.	5.8	37
58	Strong constraints on aerosol–cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	13.7	191
59	Quantifying the impact of current and future concentrations of air pollutants on respiratory disease risk in England. Environmental Health, 2017, 16, 29.	1.7	35
60	The Met Office HadGEM3-ES chemistry–climate model: evaluation of stratospheric dynamics and its impact on ozone. Geoscientific Model Development, 2017, 10, 1209-1232.	1.3	34
61	A description and evaluation of an air quality model nested within global and regional composition-climate models using MetUM. Geoscientific Model Development, 2017, 10, 3941-3962.	1.3	14
62	Review of the global models used within phase 1 of the Chemistry–Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671.	1.3	277
63	Climate change impacts on human health over Europe through its effect on air quality. Environmental Health, 2017, 16, 118.	1.7	80
64	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. Journal of Climate, 2015, 28, 6516-6535.	1.2	47
65	Evaluation of the new UKCA climate-composition model – Part 2: The Troposphere. Geoscientific Model Development, 2014, 7, 41-91.	1.3	191
66	Aerosol microphysics simulations of the Mt.~Pinatubo eruption with the UM-UKCA composition-climate model. Atmospheric Chemistry and Physics, 2014, 14, 11221-11246.	1.9	62
67	Comparison of the HadGEM2 climate-chemistry model against in situ and SCIAMACHY atmospheric methane data. Atmospheric Chemistry and Physics, 2014, 14, 13257-13280.	1.9	29
68	Impacts of climate change, ozone recovery, and increasing methane on surface ozone and the tropospheric oxidizing capacity. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1028-1041.	1.2	55
69	Implementation of the Fast-JX Photolysis scheme (v6.4) into the UKCA component of the MetUM chemistry-climate model (v7.3). Geoscientific Model Development, 2013, 6, 161-177.	1.3	84
70	Air quality modelling using the Met Office Unified Model (AQUM OS24-26): model description and initial evaluation. Geoscientific Model Development, 2013, 6, 353-372.	1.3	97
71	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663.	18.7	428
72	The HadGEM2-ES implementation of CMIP5 centennial simulations. Geoscientific Model Development, 2011, 4, 543-570.	1.3	803

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73	The HadGEM2 family of Met Office Unified Model climate configurations. <i>Geoscientific Model Development</i> , 2011, 4, 723-757.	1.3	765
74	Development and evaluation of an Earth-System model “ HadGEM2. <i>Geoscientific Model Development</i> , 2011, 4, 1051-1075.	1.3	1,141
75	Effects of climate-induced changes in isoprene emissions after the eruption of Mount Pinatubo. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7117-7125.	1.9	39
76	Possible role of wetlands, permafrost, and methane hydrates in the methane cycle under future climate change: A review. <i>Reviews of Geophysics</i> , 2010, 48, .	9.0	199
77	Interactions between tropospheric chemistry and climate model temperature and humidity biases. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	22
78	Evaluation of the new UKCA climate-composition model “ Part 1: The stratosphere. <i>Geoscientific Model Development</i> , 2009, 2, 43-57.	1.3	243
79	The World Avoided by the Montreal Protocol. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	90
80	Forest fire plumes over the North Atlantic: p-TOMCAT model simulations with aircraft and satellite measurements from the ITOPI/CARTT campaign. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
81	Global modeling of biogenic bromocarbons. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	138
82	Comparison and visualisation of high-resolution transport modelling with aircraft measurements. <i>Atmospheric Science Letters</i> , 2005, 6, 164-170.	0.8	26
83	Tropospheric bromine chemistry and its impacts on ozone: A model study. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	234
84	A quantitative analysis of grid-related systematic errors in oxidising capacity and ozone production rates in chemistry transport models. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1781-1795.	1.9	19
85	Estimating photochemically produced ozone throughout a domain using flight data and a Lagrangian model. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	56
86	Constraining tropospheric mixing timescales using airborne observations and numerical models. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1023-1035.	1.9	6
87	Observations of Streamers in the Troposphere and Stratosphere Using Ozone Lidar. <i>Journal of Atmospheric Chemistry</i> , 2001, 38, 295-315.	1.4	13
88	Chemical Ozone Loss in the Arctic Winter 1994/95 as Determined by the Match Technique. <i>Journal of Atmospheric Chemistry</i> , 1999, 32, 35-59.	1.4	90
89	Observations of subtropical air in the european mid-latitude lower stratosphere. , 1999, 125, 2965.		2
90	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 187-207.	1.4	64

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91	Observation of near-zero ozone concentrations in the upper troposphere at mid-latitudes. Geophysical Research Letters, 1998, 25, 1173-1176.	1.5	25
92	Accuracy of measurements of total ozone by a SAOZ ground-based zenith sky visible spectrometer. Journal of Geophysical Research, 1997, 102, 1379-1390.	3.3	27
93	An intercomparison of ground-based UV-visible sensors of ozone and NO2. Journal of Geophysical Research, 1997, 102, 1411-1422.	3.3	43
94	Prolonged stratospheric ozone loss in the 1995â€“96 Arctic winter. Nature, 1997, 389, 835-838.	13.7	216
95	Significant climate benefits from near-term climate forcer mitigation in spite of aerosol reductions. Environmental Research Letters, 0, , .	2.2	14