

# Owen R Cooper

## List of Publications by Year in descending order

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72  
papers

17,486  
citations

44042

48  
h-index

79644

73  
g-index

75  
all docs

75  
docs citations

75  
times ranked

20296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of the COVID-19 Economic Downturn on Tropospheric Ozone Trends: An Uncertainty Weighted Data Synthesis for Quantifying Regional Anomalies Above Western North America and Europe. AGU Advances, 2022, 3, .	2.3	9
2	Estimates of ozone concentrations and attributable mortality in urban, peri-urban and rural areas worldwide in 2019. Environmental Research Letters, 2022, 17, 054023.	2.2	38
3	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. National Science Review, 2021, 8, nwa132.	4.6	28
4	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	1.5	51
5	Mapping Yearly Fine Resolution Global Surface Ozone through the Bayesian Maximum Entropy Data Fusion of Observations and Model Output for 1990-2017. Environmental Science & Technology, 2021, 55, 4389-4398.	4.6	47
6	Global Climate. Bulletin of the American Meteorological Society, 2021, 102, S11-S142.	1.7	36
7	Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet, The, 2020, 396, 1223-1249.	6.3	3,928
8	Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. Science Advances, 2020, 6, .	4.7	64
9	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	1.7	61
10	Multi-decadal surface ozone trends at globally distributed remote locations. Elementa, 2020, 8, .	1.1	54
11	Impacts of global NO <sub>x</sub> and OH on tropospheric ozone and ozone simulations. Atmospheric Chemistry and Physics, 2020, 20, 13109-13130.	1.9	22
12	Statistical regularization for trend detection: an integrated approach for detecting long-term trends from sparse tropospheric ozone profiles. Atmospheric Chemistry and Physics, 2020, 20, 9915-9938.	1.9	15
13	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	1.7	168
14	Detecting the fingerprints of observed climate change on surface ozone variability. Science Bulletin, 2019, 64, 359-360.	4.3	6
15	A new method (M <sup>3</sup> Fusion v1) for combining observations and multiple model output for an improved estimate of the global surface ozone distribution. Geoscientific Model Development, 2019, 12, 955-978.	1.3	23
16	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	1.1	103
17	Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. Lancet, The, 2018, 392, 1923-1994.	6.3	3,269
18	Seasonal ozone vertical profiles over North America using the AQMEII3 group of air quality models: model inter-comparison and stratospheric intrusions. Atmospheric Chemistry and Physics, 2018, 18, 13925-13945.	1.9	2

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19	State of the Climate in 2017. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, Si-S310.	1.7	160
20	Severe Surface Ozone Pollution in China: A Global Perspective. <i>Environmental Science and Technology Letters</i> , 2018, 5, 487-494.	3.9	570
21	Tropospheric Ozone Assessment Report: Present-day ozone distribution and trends relevant to human health. <i>Elementa</i> , 2018, 6, .	1.1	167
22	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. <i>Elementa</i> , 2018, 6, .	1.1	212
23	Scientific assessment of background ozone over the U.S.: Implications for air quality management. <i>Elementa</i> , 2018, 6, 56.	1.1	80
24	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. <i>Elementa</i> , 2017, 5, .	1.1	172
25	The CU mobile Solar Occultation Flux instrument: structure functions and emission rates of NH <sub>3</sub> , NO <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> . <i>Atmospheric Measurement Techniques</i> , 2017, 10, 373-392.	1.2	22
26	Regional trend analysis of surface ozone observations from monitoring networks in eastern North America, Europe and East Asia. <i>Elementa</i> , 2017, 5, .	1.1	125
27	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution of emissions. <i>Nature Geoscience</i> , 2016, 9, 875-879.	5.4	140
28	Significant increase of summertime ozone at Mount Tai in Central Eastern China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10637-10650.	1.9	192
29	Trends and variability in surface ozone over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9020-9042.	1.2	90
30	Tropospheric ozone and its precursors from the urban to the global scale from air quality to short-lived climate forcer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8889-8973.	1.9	942
31	Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Geophysical Research Letters</i> , 2015, 42, 8719-8728.	1.5	69
32	Challenges of a lowered U.S. ozone standard. <i>Science</i> , 2015, 348, 1096-1097.	6.0	89
33	Origins of aerosol chlorine during winter over north central Colorado, USA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 678-694.	1.2	30
34	Transport effects on the vertical distribution of tropospheric ozone over western India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10012-10026.	1.2	44
35	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5719-5736.	1.2	149
36	Transport of NO <sub>x</sub> in East Asia identified by satellite and in situ measurements and Lagrangian particle dispersion model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2574-2596.	1.2	51

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37	Long-term trends in aerosol and precipitation composition over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8119-8135.	1.9	19
38	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 691-717.	1.9	12
39	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
40	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. <i>Geophysical Research Letters</i> , 2013, 40, 1631-1636.	1.5	95
41	Impact of Southern California anthropogenic emissions on ozone pollution in the mountain states: Model analysis and observational evidence from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,784.	1.2	21
42	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11485-11504.	1.9	260
43	Transport of Asian ozone pollution into surface air over the western United States in spring. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	218
44	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	219
45	Long-term ozone trends at rural ozone monitoring sites across the United States, 1990–2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	180
46	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2423-2453.	1.9	259
47	In-situ observation of Asian pollution transported into the Arctic lowermost stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10975-10994.	1.9	49
48	Modeling ozone plumes observed downwind of New York City over the North Atlantic Ocean during the ICARTT field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7375-7397.	1.9	22
49	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8003-8015.	1.9	84
50	Historical (1850–2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7017-7039.	1.9	2,020
51	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10223-10236.	1.9	104
52	Increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Nature</i> , 2010, 463, 344-348.	18.7	397
53	Effect of biomass burning on marine stratocumulus clouds off the California coast. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8841-8856.	1.9	96
54	Mixing between a stratospheric intrusion and a biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4229-4235.	1.9	42

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55	Intercontinental Chemical Transport Experiment Ozone Sonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
56	Transport in the subtropical lowermost stratosphere during the Cirrus Regional Study of Tropical Anvils and Cirrus Layers—Florida Area Cirrus Experiment. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
57	Stratosphere-troposphere exchange in a summertime extratropical low: analysis. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2337-2353.	1.9	24
58	Estimating the NO <sub>x</sub> produced by lightning from GOME and NLDN data: a case study in the Gulf of Mexico. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1075-1089.	1.9	70
59	Turbulence and Gravity Waves within an Upper-Level Front. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3885-3908.	0.6	89
60	Climate Change and Global Wine Quality. <i>Climatic Change</i> , 2005, 73, 319-343.	1.7	879
61	Lagrangian transport model forecasts and a transport climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) measurement campaign. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	60
62	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
63	Photochemistry, ozone production, and dilution during long-range transport episodes from Eurasia to the northwest United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	60
64	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	83
65	Forecasting for a Lagrangian aircraft campaign. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1113-1124.	1.9	21
66	A Cautionary Note on the Use of Meteorological Analysis Fields for Quantifying Atmospheric Mixing. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1446-1453.	0.6	53
67	Intercontinental transport and its influence on the ozone concentrations over central Europe: Three case studies. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	88
68	The 2001 Asian dust events: Transport and impact on surface aerosol concentrations in the U.S.. <i>Eos</i> , 2003, 84, 501-507.	0.1	88
69	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 763-777.	1.9	56
70	Rapid intercontinental air pollution transport associated with a meteorological bomb. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 969-985.	1.9	62
71	Observations of reactive oxidized nitrogen and speciation of NO <sub>y</sub> during the PROPHET summer 1998 intensive. <i>Journal of Geophysical Research</i> , 2001, 106, 24359-24386.	3.3	66
72	A study of formaldehyde chemistry above a forest canopy. <i>Journal of Geophysical Research</i> , 2001, 106, 24387-24405.	3.3	73