Owen R Cooper

List of Publications by Year
in descending order

72 papers	17,486 citations	43973 48 h-index	79541 73 g-index
75 all docs	75 docs citations	75 times ranked	20296 citing authors

#	Article	IF	Citations
1	Impact of the COVIDâ€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, nwaa132.	4.6	28
4	COVIDâ€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 1990â€“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, 1990â€“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_{<i>x</i>} inversions on NO₂ 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 (M³Fusion 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, 1990â€“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. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	1.7	160
20	Severe Surface Ozone Pollution in China: A Global Perspective. Environmental Science and Technology Letters, 2018, 5, 487-494.	3.9	570
21	Tropospheric Ozone Assessment Report: Present-day ozone distribution and trends relevant to human health. Elementa, 2018, 6, .	1.1	167
22	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. Elementa, 2018, 6, .	1.1	212
23	Scientific assessment of background ozone over the U.S.: Implications for air quality management. Elementa, 2018, 6, 56.	1.1	80
24	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
25	The CU mobile Solar Occultation Flux instrument: structure functions and emission rates of NH₃, NO₂ and C₂H₆. Atmospheric Measurement Techniques, 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. Elementa, 2017, 5, .	1.1	125
27	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution ofÂemissions. Nature Geoscience, 2016, 9, 875-879.	5.4	140
28	Significant increase of summertime ozone at Mount Tai in Central Eastern China. Atmospheric Chemistry and Physics, 2016, 16, 10637-10650.	1.9	192
29	Trends and variability in surface ozone over the United States. Journal of Geophysical Research D: Atmospheres, 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. Atmospheric Chemistry and Physics, 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. Geophysical Research Letters, 2015, 42, 8719-8728.	1.5	69
32	Challenges of a lowered U.S. ozone standard. Science, 2015, 348, 1096-1097.	6.0	89
33	Origins of aerosol chlorine during winter over north central Colorado, USA. Journal of Geophysical Research D: Atmospheres, 2015, 120, 678-694.	1.2	30
34	Transport effects on the vertical distribution of tropospheric ozone over western India. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10012-10026.	1.2	44
35	Longâ€term changes in lower tropospheric baseline ozone concentrations: Comparing chemistryâ€climate models and observations at northern midlatitudes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5719-5736.	1.2	149
36	Transport of NO_x in East Asia identified by satellite and in situ measurements and Lagrangian particle dispersion model simulations. Journal of Geophysical Research D: Atmospheres, 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. Atmospheric Chemistry and Physics, 2014, 14, 8119-8135.	1.9	19
38	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. Atmospheric Chemistry and Physics, 2014, 14, 691-717.	1.9	12
39	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5830-5866.	1.2	199
40	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. Geophysical Research Letters, 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. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,784.	1.2	21
42	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. Atmospheric Chemistry and Physics, 2012, 12, 11485-11504.	1.9	260
43	Transport of Asian ozone pollution into surface air over the western United States in spring. Journal of Geophysical Research, 2012, 117, .	3.3	218
44	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. Journal of Geophysical Research, 2012, 117, .	3.3	219
45	Longâ€term ozone trends at rural ozone monitoring sites across the United States, 1990â€“2010. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	1.9	259
47	In-situ observation of Asian pollution transported into the Arctic lowermost stratosphere. Atmospheric Chemistry and Physics, 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. Atmospheric Chemistry and Physics, 2011, 11, 7375-7397.	1.9	22
49	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. Atmospheric Chemistry and Physics, 2011, 11, 8003-8015.	1.9	84
50	Historical (1850â€“2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. Atmospheric Chemistry and Physics, 2010, 10, 7017-7039.	1.9	2,020
51	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. Atmospheric Chemistry and Physics, 2010, 10, 10223-10236.	1.9	104
52	Increasing springtime ozone mixing ratios in the free troposphere over western North America. Nature, 2010, 463, 344-348.	13.7	397
53	Effect of biomass burning on marine stratocumulus clouds off the California coast. Atmospheric Chemistry and Physics, 2009, 9, 8841-8856.	1.9	96
54	Mixing between a stratospheric intrusion and a biomass burning plume. Atmospheric Chemistry and Physics, 2007, 7, 4229-4235.	1.9	42

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55	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. Journal of Geophysical Research, 2007, 112, .	3.3	82
56	Transport in the subtropical lowermost stratosphere during the Cirrus Regional Study of Tropical Anvils and Cirrus Layersâ€“Florida Area Cirrus Experiment. Journal of Geophysical Research, 2007, 112, .	3.3	9
57	Stratosphere-troposphere exchange in a summertime extratropical low: analysis. Atmospheric Chemistry and Physics, 2006, 6, 2337-2353.	1.9	24
58	Estimating the NO_x produced by lightning from GOME and NLDN data: a case study in the Gulf of Mexico. Atmospheric Chemistry and Physics, 2006, 6, 1075-1089.	1.9	70
59	Turbulence and Gravity Waves within an Upper-Level Front. Journals of the Atmospheric Sciences, 2005, 62, 3885-3908.	0.6	89
60	Climate Change and Global Wine Quality. Climatic Change, 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. Journal of Geophysical Research, 2004, 109, .	3.3	60
62	Particle characteristics following cloud-modified transport from Asia to North America. Journal of Geophysical Research, 2004, 109, .	3.3	86
63	Photochemistry, ozone production, and dilution during long-range transport episodes from Eurasia to the northwest United States. Journal of Geophysical Research, 2004, 109, .	3.3	60
64	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. Journal of Geophysical Research, 2004, 109, .	3.3	83
65	Forecasting for a Lagrangian aircraft campaign. Atmospheric Chemistry and Physics, 2004, 4, 1113-1124.	1.9	21
66	A Cautionary Note on the Use of Meteorological Analysis Fields for Quantifying Atmospheric Mixing. Journals of the Atmospheric Sciences, 2004, 61, 1446-1453.	0.6	53
67	Intercontinental transport and its influence on the ozone concentrations over central Europe: Three case studies. Journal of Geophysical Research, 2003, 108, .	3.3	88
68	The 2001 Asian dust events: Transport and impact on surface aerosol concentrations in the U.S.. Eos, 2003, 84, 501-507.	0.1	88
69	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. Atmospheric Chemistry and Physics, 2003, 3, 763-777.	1.9	56
70	Rapid intercontinental air pollution transport associated with a meteorological bomb. Atmospheric Chemistry and Physics, 2003, 3, 969-985.	1.9	62
71	Observations of reactive oxidized nitrogen and speciation of NOyduring the PROPHET summer 1998 intensive. Journal of Geophysical Research, 2001, 106, 24359-24386.	3.3	66
72	A study of formaldehyde chemistry above a forest canopy. Journal of Geophysical Research, 2001, 106, 24387-24405.	3.3	73