Owen R Cooper

List of Publications by Year
in descending order

72 papers	17,486 citations	44069 48 h-index	79698 73 g-index
75 all docs	75 docs citations	75 times ranked	20296 citing authors

#	Article	IF	Citations
1	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.	13.7	3,928
2	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.	13.7	3,269
3	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.	4.9	2,020
4	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.	4.9	942
5	Climate Change and Global Wine Quality. Climatic Change, 2005, 73, 319-343.	3.6	879
6	Severe Surface Ozone Pollution in China: A Global Perspective. Environmental Science and Technology Letters, 2018, 5, 487-494.	8.7	570
7	Increasing springtime ozone mixing ratios in the free troposphere over western North America. Nature, 2010, 463, 344-348.	27.8	397
8	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. Atmospheric Chemistry and Physics, 2012, 12, 11485-11504.	4.9	260
9	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.	4.9	259
10	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
11	Transport of Asian ozone pollution into surface air over the western United States in spring. Journal of Geophysical Research, 2012, 117, .	3.3	218
12	Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. Elementa, 2018, 6, .	3.2	212
13	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.	3.3	199
14	Significant increase of summertime ozone at Mount Tai in Central Eastern China. Atmospheric Chemistry and Physics, 2016, 16, 10637-10650.	4.9	192
15	Longâ€term ozone trends at rural ozone monitoring sites across the United States, 1990â€"2010. Journal of Geophysical Research, 2012, 117, .	3.3	180
16	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	3.2	172
17	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	3.3	168
18	Tropospheric Ozone Assessment Report: Present-day ozone distribution and trends relevant to human health. Elementa, 2018, 6, .	3.2	167

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19	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
20	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.	3.3	149
21	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution ofÂemissions. Nature Geoscience, 2016, 9, 875-879.	12.9	140
22	Regional trend analysis of surface ozone observations from monitoring networks in eastern North America, Europe and East Asia. Elementa, 2017, 5, .	3.2	125
23	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. Atmospheric Chemistry and Physics, 2010, 10, 10223-10236.	4.9	104
24	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. Elementa, 2019, 7, .	3.2	103
25	Effect of biomass burning on marine stratocumulus clouds off the California coast. Atmospheric Chemistry and Physics, 2009, 9, 8841-8856.	4.9	96
26	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. Geophysical Research Letters, 2013, 40, 1631-1636.	4.0	95
27	Trends and variability in surface ozone over the United States. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9020-9042.	3.3	90
28	Turbulence and Gravity Waves within an Upper-Level Front. Journals of the Atmospheric Sciences, 2005, 62, 3885-3908.	1.7	89
29	Challenges of a lowered U.S. ozone standard. Science, 2015, 348, 1096-1097.	12.6	89
30	Intercontinental transport and its influence on the ozone concentrations over central Europe: Three case studies. Journal of Geophysical Research, 2003, 108, .	3.3	88
31	The 2001 Asian dust events: Transport and impact on surface aerosol concentrations in the U.S.. Eos, 2003, 84, 501-507.	0.1	88
32	Particle characteristics following cloud-modified transport from Asia to North America. Journal of Geophysical Research, 2004, 109, .	3.3	86
33	Cloud condensation nuclei as a modulator of ice processes in Arctic mixed-phase clouds. Atmospheric Chemistry and Physics, 2011, 11, 8003-8015.	4.9	84
34	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. Journal of Geophysical Research, 2004, 109, .	3.3	83
35	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
36	Scientific assessment of background ozone over the U.S.: Implications for air quality management. Elementa, 2018, 6, 56.	3.2	80

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37	A study of formaldehyde chemistry above a forest canopy. Journal of Geophysical Research, 2001, 106, 24387-24405.	3.3	73
38	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.	4.9	70
39	Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. Geophysical Research Letters, 2015, 42, 8719-8728.	4.0	69
40	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
41	Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. Science Advances, 2020, 6, .	10.3	64
42	Rapid intercontinental air pollution transport associated with a meteorological bomb. Atmospheric Chemistry and Physics, 2003, 3, 969-985.	4.9	62
43	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
44	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
45	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
46	Forecast, observation and modelling of a deep stratospheric intrusion event over Europe. Atmospheric Chemistry and Physics, 2003, 3, 763-777.	4.9	56
47	Multi-decadal surface ozone trends at globally distributed remote locations. Elementa, 2020, 8, .	3.2	54
48	A Cautionary Note on the Use of Meteorological Analysis Fields for Quantifying Atmospheric Mixing. Journals of the Atmospheric Sciences, 2004, 61, 1446-1453.	1.7	53
49	Transport of NO<i>_x</i> 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.	3.3	51
50	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	51
51	In-situ observation of Asian pollution transported into the Arctic lowermost stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 10975-10994.	4.9	49
52	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.	10.0	47
53	Transport effects on the vertical distribution of tropospheric ozone over western India. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10012-10026.	3.3	44
54	Mixing between a stratospheric intrusion and a biomass burning plume. Atmospheric Chemistry and Physics, 2007, 7, 4229-4235.	4.9	42

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55	Estimates of ozone concentrations and attributable mortality in urban, peri-urban and rural areas worldwide in 2019. Environmental Research Letters, 2022, 17, 054023.	5.2	38
56	Global Climate. Bulletin of the American Meteorological Society, 2021, 102, S11-S142.	3.3	36
57	Origins of aerosol chlorine during winter over north central Colorado, USA. Journal of Geophysical Research D: Atmospheres, 2015, 120, 678-694.	3.3	30
58	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. National Science Review, 2021, 8, nwaa132.	9.5	28
59	Stratosphere-troposphere exchange in a summertime extratropical low: analysis. Atmospheric Chemistry and Physics, 2006, 6, 2337-2353.	4.9	24
60	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.	3.6	23
61	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.	4.9	22
62	The CU mobile Solar Occultation Flux instrument: structure functions and emission rates of NH₃, NO₂ and C₂H₆. Atmospheric Measurement Techniques, 2017, 10, 373-392.	3.1	22
63	Impacts of global NO_{<i>x</i>} inversions on NO₂ and ozone simulations. Atmospheric Chemistry and Physics, 2020, 20, 13109-13130.	4.9	22
64	Forecasting for a Lagrangian aircraft campaign. Atmospheric Chemistry and Physics, 2004, 4, 1113-1124.	4.9	21
65	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.	3.3	21
66	Long-term trends in aerosol and precipitation composition over the western North Atlantic Ocean at Bermuda. Atmospheric Chemistry and Physics, 2014, 14, 8119-8135.	4.9	19
67	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.	4.9	15
68	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. Atmospheric Chemistry and Physics, 2014, 14, 691-717.	4.9	12
69	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
70	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, .	5.4	9
71	Detecting the fingerprints of observed climate change on surface ozone variability. Science Bulletin, 2019, 64, 359-360.	9.0	6
72	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.	4.9	2