RESEARCH & PUBLICATIONS

Owen Cooper

A publication record at a glance

131	29,059	65
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods

MOST CITED IN THIS LIST

Global Burden of 87 Risk Factors in 204 Countries and Territories, 1990–2019: A Systematic Analysis for the Global Burden of Disease Study 2019 — 8,941

2020 Lancet, The

Global, Regional, and National Comparative Risk Assessment of 84 Behavioural, Environmental and Occupational, and Metabolic Risks or Clusters of Risks for 195 — 4,516

... full title in the publication list

2018 Lancet, The

Historical (1850–2000) Gridded Anthropogenic and Biomass Burning Emissions of Reactive Gases and Aerosols: Methodology and Application — 1,867

2010 Atmospheric Chemistry and Physics

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Ordered by publication year, newest first

2026

01 **Top-Down Estimates of U.S. NOx Emissions Using TEMPO and TROPOMI NO2 Remote Sensing Observations With WRF-Chem/Chem-DART**

4 citations

Journal of Geophysical Research D: Atmospheres · 131, e2025JD044223

https://exaly.com/article/209432549

2025

02 **Surface Ozone Trend Variability Across the United States and the Impact of Heat Waves (1990–2023)**

18 citations

Atmospheric Chemistry and Physics · 25, 5101-5132

https://exaly.com/article/201022794

03 **Global Source–Receptor-Relationship Database for Integrated Tropospheric Ozone Observations From Multiplatform Datasets in Western North America During 1994–2021**

1 citations

Earth System Science Data · 17, 5903-5914

https://exaly.com/article/206859141

2024

04 **Interesting Statistical Study on Biases Due to Sparse Sampling.**

0 citations

Journal unavailable

https://exaly.com/article/176356564

05 **Comment on Egusphere-2023-2739**

0 citations

Journal unavailable

https://exaly.com/article/176692351

06 **Comment on Egusphere-2023-2739**

0 citations

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https://exaly.com/article/176941504

07 **Response to Reviewers: Egusphere-2023-2739**

0 citations

Journal unavailable

https://exaly.com/article/177772111

08 **MIXv2: A Long-Term Mosaic Emission Inventory for Asia (2010–2017)**

57 citations

Atmospheric Chemistry and Physics · 24, 3925-3952

https://exaly.com/article/177891144

09 **Technical Note: Challenges in Detecting Free Tropospheric Ozone Trends in a Sparsely Sampled Environment**

15 citations

Atmospheric Chemistry and Physics · 24, 6197-6218

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2024 / continued

10 **Global Climate** — 25 citations
Bulletin of the American Meteorological Society · 105, S12-S155
https://exaly.com/article/188398656

11 **Tropical Tropospheric Ozone Distribution and Trends From in Situ and Satellite Data** — 46 citations
Atmospheric Chemistry and Physics · 24, 9975-10000
https://exaly.com/article/192669024

12 **Early Season 2023 Wildfires Generated Record-Breaking Surface Ozone Anomalies Across the U.S. Upper Midwest** — 32 citations
Geophysical Research Letters · 51, e2024GL111481
https://exaly.com/article/195015692

2023

13 **Diverging Ozone Trends Above Western North America: Boundary Layer Decreases Versus Free Tropospheric Increases** — 15 citations
Journal of Geophysical Research D: Atmospheres · 128, e2022JD038090
https://exaly.com/article/162124560

14 **Quantifying Anomalies of Air Pollutants in 9 U.S. Cities During 2020 Due to COVID-19 Lockdowns and Wildfires Based on Decadal Trends** — 10 citations
Elementa
https://exaly.com/article/164971446

15 **Using Regionalized Air Quality Model Performance and Bayesian Maximum Entropy Data Fusion to Map Global Surface Ozone Concentration** — 9 citations
Elementa
https://exaly.com/article/168512766

16 **Global Climate** — 22 citations
Bulletin of the American Meteorological Society · 104, S11-S145
https://exaly.com/article/169614558

17 **Ground-Based Reactive Gas Observations Within the Global Atmosphere Watch (GAW) Network** — 0 citations
Journal unavailable
https://exaly.com/article/170115952

18 **Fingerprints of the COVID-19 Economic Downturn and Recovery on Ozone Anomalies at High-Elevation Sites in North America and Western Europe** — 22 citations
Atmospheric Chemistry and Physics · 23, 15693-15709
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2022

19 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 · 3, e2021AV000542
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31 citations

20 Estimates of Ozone Concentrations and Attributable Mortality in Urban, Peri-Urban and Rural Areas Worldwide in 2019
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97 citations

21 Ground-Based Reactive Gas Observations Within the Global Atmosphere Watch (GAW) Network
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22 Global Climate
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23 Global Tropospheric Ozone Trends, Attributions, and Radiative Impacts in 1995–2017: An Integrated Analysis Using Aircraft (IAGOS) Observations, Ozonesonde, and Multi-Decadal Chemical Model Simulations
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24 Understanding Recent Tropospheric Ozone Trends in the Context of Large Internal Variability: A New Perspective From Chemistry-Climate Model Ensembles
Environmental Research: Climate · 1, 025008
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25 Global Trends in Ozone Concentration and Attributable Mortality for Urban, Peri-Urban, and Rural Areas Between 2000 and 2019: A Modelling Study
Lancet Planetary Health, The · 6, e958-e967
https://exaly.com/article/158145716
166 citations

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26 ENSO and Southeast Asian Biomass Burning Modulate Subtropical Trans-Pacific Ozone Transport.
National Science Review · 8, nwaa132
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2021 / continued

27 COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere
78 citations
Geophysical Research Letters · 48, e2020GL091987
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28 Mapping Yearly Fine Resolution Global Surface Ozone Through the Bayesian Maximum Entropy Data Fusion of Observations and Model Output for 1990–2017
88 citations
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https://exaly.com/article/79550484

29 Global Climate
51 citations
Bulletin of the American Meteorological Society · 102, S11-S142
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2020

30 Global Burden of 87 Risk Factors in 204 Countries and Territories, 1990–2019: A Systematic Analysis for the Global Burden of Disease Study 2019
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Lancet, The · 396, 1223-1249
https://exaly.com/article/75542197

31 Aircraft Observations Since the 1990s Reveal Increases of Tropospheric Ozone at Multiple Locations Across the Northern Hemisphere
127 citations
Science Advances
https://exaly.com/article/76319173

32 Global Climate
73 citations
Bulletin of the American Meteorological Society · 101, S9-S128
https://exaly.com/article/86402840

33 Tropospheric Ozone Assessment ReportA Critical Review of Changes in the Tropospheric Ozone Burden and Budget From 1850 to 2100
133 citations
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https://exaly.com/article/87303985

34 Multi-Decadal Surface Ozone Trends at Globally Distributed Remote Locations
102 citations
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35 Impacts of Global NO_x Inversions on NO_2 and Ozone Simulations
35 citations
Atmospheric Chemistry and Physics · 20, 13109-13130
https://exaly.com/article/90149393

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2020 / continued

36 **Statistical Regularization for Trend Detection: An Integrated Approach for Detecting Long-Term Trends From Sparse Tropospheric Ozone Profiles**

Atmospheric Chemistry and Physics · 20, 9915-9938

https://exaly.com/article/90149641

26 citations

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37 **Detecting the Fingerprints of Observed Climate Change on Surface Ozone Variability**

Science Bulletin · 64, 359-360

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10 citations

38 **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 · 12, 955-978

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39 **Tropospheric Ozone Assessment Report: Tropospheric Ozone From 1877 to 2016, Observed Levels, Trends and Uncertainties**

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192 citations

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40 **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**

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41 **Seasonal Ozone Vertical Profiles Over North America Using the AQMEII3 Group of Air Quality Models: Model Inter-Comparison and Stratospheric Intrusions**

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42 **Severe Surface Ozone Pollution in China: A Global Perspective**

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43 **Tropospheric Ozone Assessment Report: Present-Day Ozone Distribution and Trends Relevant to Human Health**

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44 Tropospheric Ozone Assessment Report: Present-Day Distribution and Trends of Tropospheric Ozone Relevant to Climate and Global Atmospheric Chemistry Model Evaluation
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45 Tropospheric Ozone Assessment Report: Present-Day Tropospheric Ozone Distribution and Trends Relevant to Vegetation
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46 Scientific Assessment of Background Ozone Over the U.S.: Implications for Air Quality Management
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47 Tropospheric Ozone Assessment Report: Database and Metrics Data of Global Surface Ozone Observations
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48 The CU Mobile Solar Occultation Flux Instrument: Structure Functions and Emission Rates of NH_3, NO_2 and C_2H_6
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https://exaly.com/article/68556342

49 Regional Trend Analysis of Surface Ozone Observations From Monitoring Networks in Eastern North America, Europe and East Asia
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50 Tropospheric Ozone Change From 1980 to 2010 Dominated by Equatorward Redistribution of Emissions
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Nature Geoscience · 9, 875-879
https://exaly.com/article/64762394

51 Significant Increase of Summertime Ozone at Mount Tai in Central Eastern China
207 citations
Atmospheric Chemistry and Physics · 16, 10637-10650
https://exaly.com/article/64825762

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52 Diurnal Cycle of Ozone Throughout the Troposphere Over Frankfurt as Measured by MOZAIC-IAGOS Commercial Aircraft — 30 citations

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2015

53 Trends and Variability in Surface Ozone Over the United States — 105 citations

Journal of Geophysical Research D: Atmospheres · 120, 9020-9042

https://exaly.com/article/60255930

54 Tropospheric Ozone and Its Precursors From the Urban to the Global Scale From Air Quality to Short-Lived Climate Forcer — 1,361 citations

Atmospheric Chemistry and Physics · 15, 8889-8973

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55 Revisiting the Evidence of Increasing Springtime Ozone Mixing Ratios in the Free Troposphere Over Western North America — 74 citations

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56 Challenges of a Lowered U.S. Ozone Standard — 104 citations

Science · 348, 1096-7

https://exaly.com/article/61191634

57 Origins of Aerosol Chlorine During Winter Over North Central Colorado, USA — 28 citations

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https://exaly.com/article/61804387

58 Introduction to the Special Issue on Observations and Source Attribution of Ozone in Rural Regions of the Western United States — 12 citations

Atmospheric Environment · 109, 279-281

https://exaly.com/article/62161425

2014

59 Transport Effects on the Vertical Distribution of Tropospheric Ozone Over Western India — 51 citations

Journal of Geophysical Research D: Atmospheres · 119, 10012-10026

https://exaly.com/article/59221347

60 Long-Term Changes in Lower Tropospheric Baseline Ozone Concentrations: Comparing Chemistry-Climate Models and Observations at Northern Midlatitudes — 158 citations

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61 Transport of NOx in East Asia Identified by Satellite and in Situ Measurements and Lagrangian Particle Dispersion Model Simulations — 56 citations

Journal of Geophysical Research D: Atmospheres · 119, 2574-2596

https://exaly.com/article/59869802

62 Long-Term Trends in Aerosol and Precipitation Composition Over the Western North Atlantic Ocean at Bermuda — 25 citations

Atmospheric Chemistry and Physics · 14, 8119-8135

https://exaly.com/article/59925117

63 Flow Climatology for Physicochemical Properties of Dichotomous Aerosol Over the Western North Atlantic Ocean at Bermuda — 13 citations

Atmospheric Chemistry and Physics · 14, 691-717

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64 Global Distribution and Trends of Tropospheric Ozone: An Observation-Based Review — 481 citations

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65 The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) Field Study — 196 citations

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66 Lower Tropospheric Ozone at Northern Midlatitudes: Changing Seasonal Cycle — 94 citations

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67 Vertically Resolved Chemical Characteristics and Sources of Submicron Aerosols Measured on a Tall Tower in a Suburban Area Near Denver, Colorado in Winter — 20 citations

Journal of Geophysical Research D: Atmospheres · 118, 13,591-13,605

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68 Impact of Southern California Anthropogenic Emissions on Ozone Pollution in the Mountain States: Model Analysis and Observational Evidence From Space — 24 citations

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69 **Long-Term Changes in Lower Tropospheric Baseline Ozone Concentrations at Northern Mid-Latitudes** — 236 citations

Atmospheric Chemistry and Physics · 12, 11485-11504

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70 **Stratospheric Influence on Surface Ozone in the Los Angeles Area During Late Spring and Early Summer of 2010** — 119 citations

Journal of Geophysical Research D: Atmospheres

https://exaly.com/article/53790685

71 **Transport of Asian Ozone Pollution Into Surface Air Over the Western United States in Spring** — 215 citations

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72 **Springtime High Surface Ozone Events Over the Western United States: Quantifying the Role of Stratospheric Intrusions** — 234 citations

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https://exaly.com/article/53793397

73 **Long-Term Ozone Trends at Rural Ozone Monitoring Sites Across the United States, 1990–2010** — 227 citations

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74 **Black Carbon Measurements in the Pearl River Delta Region of China** — 50 citations

Journal of Geophysical Research D: Atmospheres

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75 **Measurement of Western U.S. Baseline Ozone From the Surface to the Tropopause and Assessment of Downwind Impact Regions** — 71 citations

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76 **Characteristics, Sources, and Transport of Aerosols Measured in Spring 2008 During the Aerosol, Radiation, and Cloud Processes Affecting Arctic Climate (ARCPAC) Project** — 227 citations

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77 In-Situ Observation of Asian Pollution Transported Into the Arctic Lowermost Stratosphere — 42 citations

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78 Modeling Ozone Plumes Observed Downwind of New York City Over the North Atlantic Ocean During the ICARTT Field Campaign — 20 citations

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79 Cloud Condensation Nuclei as a Modulator of Ice Processes in Arctic Mixed-Phase Clouds — 83 citations

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80 Historical (1850–2000) Gridded Anthropogenic and Biomass Burning Emissions of Reactive Gases and Aerosols: Methodology and Application — 1,867 citations

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81 Ozone Variability and Halogen Oxidation Within the Arctic and Sub-Arctic Springtime Boundary Layer — 95 citations

Atmospheric Chemistry and Physics · 10, 10223-10236

https://exaly.com/article/47726724

82 Increasing Springtime Ozone Mixing Ratios in the Free Troposphere Over Western North America — 372 citations

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83 High-Resolution Tropospheric Ozone Fields for INTEX and ARCTAS From IONS Ozonesondes — 33 citations

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84 Variations in Ozone Depletion Potentials of Very Short-Lived Substances With Season and Emission Region — 41 citations

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86 Effect of Biomass Burning on Marine Stratocumulus Clouds Off the California Coast

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87 Characterization of the Composition, Structure, and Seasonal Variation of the Mixing Layer Above the Extratropical Tropopause as Revealed by MOZAIC Measurements

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89 Mixing Between a Stratospheric Intrusion and a Biomass Burning Plume

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91 Comparison of Canadian Air Quality Forecast Models With Tropospheric Ozone Profile Measurements Above Midlatitude North America During the IONS/ICARTT Campaign: Evidence for Stratospheric Input

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92 Transport in the Subtropical Lowermost Stratosphere During the Cirrus Regional Study of Tropical Anvils and Cirrus Layers–Florida Area Cirrus Experiment

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95 Biomass Burning and Anthropogenic Sources of CO Over New England in the Summer 2004 — 70 citations

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96 An Analysis of the Mechanisms of North American Pollutant Transport to the Central North Atlantic Lower Free Troposphere — 66 citations

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97 Large Upper Tropospheric Ozone Enhancements Above Midlatitude North America During Summer: In Situ Evidence From the IONS and MOZAIC Ozone Measurement Network — 97 citations

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99 Estimating the NO_x Produced by Lightning From GOME and NLDN Data: A Case Study in the Gulf of Mexico — 57 citations

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100 Turbulence and Gravity Waves Within an Upper-Level Front — 98 citations

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102 **Intercontinental Air Pollution Transport From North America to Europe: Experimental Evidence From Airborne Measurements and Surface Observations** — 78 citations
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103 **A Springtime Comparison of Tropospheric Ozone and Transport Pathways on the East and West Coasts of the United States** — 48 citations
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104 **Direct Transport of Midlatitude Stratospheric Ozone Into the Lower Troposphere and Marine Boundary Layer of the Tropical Pacific Ocean** — 80 citations
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105 **Lagrangian Transport Model Forecasts and a Transport Climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) Measurement Campaign** — 56 citations
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70 citations
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https://exaly.com/article/37380595

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