# Special Issue

# Atmospheric Trace Gas Source Detection and Quantification

## Message from the Guest Editor

Atmospheric trace gas measurements are a widespread research tool through which we seek to enhance our understanding of the physical and chemical processes occurring around us. Increasingly, focus in this area of research is turning towards detection and quantification of specific trace gas sources in order to inform and/or address questions with broad impacts in fields such as health and human safety, climate change, indoor and outdoor air quality, and national security/defense. We are pleased to announce that this Special Issue of *Atmosphere* will focus on the broad topic of atmospheric trace gas source detection and quantification. We invite researchers to submit original research manuscripts in areas related to this topic which may include, but are not limited to, techniques/methods for characterizing sources of specific trace gases, methods/frameworks for trace gas source characterization which are independent from sensing platforms, novel demonstrations of trace gas source characterization, and new proposed methods which enable trace gas source detection and quantification.

## Guest Editor

Dr. Sean Coburn

Precision Laser Diagnostics Laboratory, University of Colorado Boulder, Boulder, CO 80309, USA

## Deadline for manuscript submissions

closed (25 February 2021)

**Atmosphere**

**an Open Access Journal by MDPI**

**Impact Factor 2.3**
**CiteScore 4.9**

mdpi.com/si/42121

*Atmosphere*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

mdpi.com/journal/atmosphere

# Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

# About the Journal

## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

## Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

## Author Benefits

**Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

**Journal Rank:**

CiteScore - Q2 (Environmental Science (miscellaneous))

MDPI