Special Issue

Source Attribution of Air Pollution in Europe

Message from the Guest Editors

To design effective mitigation strategies to reduce air pollution exposure in Europe, a thorough understanding of the origin of air pollutants is required. This Special Issue aims to collect a body of original research on source attribution studies in Europe. We welcome dedicated experimental studies that elucidate the contributions of single-source types based on specific source tracers or a set of sources using receptor modelling. Furthermore, we welcome model-based studies that quantify—as well as show improvements in such calculations—source contributions to air pollution levels. New modelling approaches employ different labelling and perturbation techniques with variable strengths and weaknesses. Relevant contributions include those from, for e.g., natural sources, anthropogenic source sectors, specific source regions, and local and transboundary contributions. Assessments may analyze and compare different time horizons, for e.g., annual means, seasonal variability, and/or episodes. The evaluation and comparison of different source attribution approaches is a topic of particular interest.

Guest Editors

Dr. Sabine Banzhaf

Institute of Meteorology, Freie Universität Berlin, Carl-Heinrich-Becker-Weg 6-10, 12165 Berlin, Germany

Prof. Dr. Martijn Schaap

Department of Climate, Air and Sustainability, TNO, Utrecht, The Netherlands

Deadline for manuscript submissions

closed (30 November 2023)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/174150

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