



Air Quality: Monitoring, Modeling, and Characterization of Polluted Environments

Guest Editors:

Dr. Maria Grazia Alaimo

Dipartimento di Scienze della Terra e del Mare (DiSTeM),
Università degli Studi di Palermo,
90123 Palermo, Italy

Dr. Daniela Varrica

Department Scienze della Terra e
del Mare (DiSTeM), University of
Palermo, 90123 Palermo, Italy

Deadline for manuscript
submissions:

closed (29 April 2022)

Message from the Guest Editors

The modeling methodology helped identify air pollution patterns and pathways that provide necessary spatial details and maximum concentrations of pollutants especially at greater distances from monitoring stations.

Anthropized areas are characterized by numerous pollutants emitted by anthropic sources both in the form of solid and gaseous particulates. The main sources of pollution can be mainly identified in vehicular traffic, domestic heating, industrial realities, mining activities, and the possible presence of harbor.

The assessment of air pollution can also be carried out using biomonitoring methods, which in recent years have been receiving increasing favour, as it appears to be an easy, inexpensive and accesible approach for the determination of atmospheric pollutants.

This special issue of the journal "Atmosphere" focuses on the current state of knowledge on the study of atmospheric pollution in anthropized areas, to determine the concentrations of the main pollutants, model their spatial distribution and identify their sources, measuring their concentration through the use of different methods.

New research papers, reviews are welcome to this issue.





an Open Access Journal by MDPI

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

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!

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)*)

Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)