



Urban Atmospheric Aerosols: Sources, Analysis and Effects

Guest Editors:

Dr. Regina Duarte

CESAM—Centre for
Environmental and Marine
Studies, Department of
Chemistry, University of Aveiro,
3810-193 Aveiro, Portugal

**Prof. Dr. Armando da Costa
Duarte**

Department of Chemistry &
CESAM, University of Aveiro,
3810-193 Aveiro, Portugal

Deadline for manuscript
submissions:

closed (30 November 2019)

Message from the Guest Editors

Due to growing urbanization, urban areas are a very special case as far as PM_{2.5} concentrations, composition, sources, and health effects are concerned. The physical and chemical properties of urban PM_{2.5} (e.g., atmospheric concentration, size (fine- and ultrafine particles), surface area, chemical composition, and water-solubility) can influence the magnitude of adverse health effects. Therefore, it is highly desirable to conduct studies on the physico-chemical and toxicological characterization of urban PM_{2.5} in order to assess health effects and to establish efficient control strategies. Furthermore, understanding how urban aerosols affect the air quality of indoor environments in urban buildings is essential in assessing the potential health effects. Hence, much work is still needed to enhance our understanding of the chemical composition, size distribution, source apportionment, and indoor–outdoor relationships of PM_{2.5} in urban areas and their health consequences upon exposure.

In this Special Issue, manuscripts on all aspects of urban atmospheric aerosols, namely sources, analysis, and effects, are welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ilias Kavouras

Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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, St. Alban-Anlage 66
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)