



## Atmospheric Shipping Emissions and Their Environmental Impacts

Guest Editors:

**Prof. Dr. Yan Zhang**

**Dr. Volker Matthias**

**Dr. Huan Liu**

**Dr. Jana Moldanova**

**Dr. Nicolas Moussiopoulos**

Deadline for manuscript  
submissions:

**closed (31 March 2023)**

### Message from the Guest Editors

Shipping is an important global source for air pollutants and greenhouse gases. The last decade has witnessed graduated strengthening of regulations on air pollutants from shipping and on marine fuel oil, recognizing this as a concern of global scale and stimulating shipping emission related research. This Special Issue of *Atmosphere* aims to promote scientific and technical communications in this field. Original results with respect to shipping emissions, air pollution modeling and its impacts, field and laboratory observations and review papers related to shipping emissions are all welcome contributions.

The topics of interest for the Special Issue include but are not limited to the following:

Emission inventories from ships and ports;

Monitoring techniques of shipping emissions;

Impacts of shipping emissions on air quality on scales from local to global;

Interactions of shipping emissions with other sector sources;

Comprehensive impacts of policies for shipping, particularly regarding low sulfur fuel oils, nitrogen oxides emission control and greenhouse gas reductions;

Impacts of shipping emissions on human health, marine and terrestrial ecosystems and climate change.





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](http://www.mdpi.com)

[mdpi.com/journal/atmosphere](http://mdpi.com/journal/atmosphere)  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)  
[X@Atmosphere\\_MDPI](https://twitter.com/Atmosphere_MDPI)