

Special Issue

Air Pollution in Chemical Industries

Message from the Guest Editors

This Special Issue aims to present recent developments in air pollution from chemical plants, which are a major source of human health and ecological deterioration. Innovations should be related to the methodology used to estimate emissions, the fate and transport of these hazardous air pollutants, and multi-pathway human and ecological risk assessments.

Currently, there are several limitations to estimating impacts. These are characterized by the collection of atmospheric pollutant concentrations on a very limited number of contaminants and at point locations without knowledge of the substances' origins. The only acceptable approach to assess the impacts are by the use of mathematical models for the exposure estimations, along with data on the transport and end-point toxicity.

The focus of this Special Issue is, therefore, to collate original research on novel models to monitor and estimate emissions, evaluate fate and transport in multimedia to receptors (humans and ecological), and assess of toxic risks coming from chemical industries.

Guest Editors

Prof. Dr. Jesse Van Griensven Thé

Department of Mechanical & Mechatronics Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1, Canada

Prof. Dr. Bahram Gharabaghi

School of Engineering, University of Guelph, Guelph, ON N1G 2W1, Canada

Deadline for manuscript submissions

closed (10 October 2024)



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/145090

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

[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)





Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



[mdpi.com/journal/
atmosphere](https://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))