atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 4.6

Emissions Inventory Modeling: Current Status and Perspective

Guest Editors:

Dr. Kaiyu Chen
Department of Chemical Engineering, University of Utah, Salt Lake City, UT 84112, USA

Dr. Pengfei Wang
Department of Civil and Environmental Engineering, Penn State University, State College, PA 16801, USA

Dr. Bobo Wu
School of Ecology and Environment, Beijing Technology & Business University, Beijing, China

Deadline for manuscript submissions:
closed (30 August 2023)

Message from the Guest Editors

The open-access journal Atmosphere is hosting a Special Issue with the goal of providing a brief overview of the development of emission models, their current applications, and the potential efforts/contributions needed in the future. Ambient air pollution is a global issue that has the potential to induce adverse effects on human health and the ecosystem. Emission models are designed to conduct numerical simulations by taking information from multiple sources, including emission inventories and measurements, to provide spatiotemporal gridded data for air quality analysis. This Special Issue encourages researchers to share their findings and perspectives about the development of emission models.

The topics of interest for this Special Issue include, but are not limited to:

Physics and dynamics of emission transport;
Chemical mechanisms in emission models;
Model developments, improvements and applications;
Emission inventory;
Database tool developments;
Exposure assessment;
Indoor and outdoor air pollution.

atmosphere

IMPACT FACTOR 2.5

CITESCORE 4.6

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