

Special Issue

Numerical Simulation of Aerosol Microphysical Processes

Message from the Guest Editors

The aim of this Special Issue is to showcase the most recent advances in the numerical simulation of aerosol microphysical processes. We encourage the submission of manuscripts about innovations of simulations at the process level, including, but not limited to, emission of aerosols and precursor gases, nucleation/new particle formation, secondary formation of organics/inorganics aerosols, aging of preexisting aerosols, cloud droplet activation, wet scavenging, and dry deposition. The numerical models of interest include, but are not limited to, aerosol dynamical models, cloud resolving models, air quality models, chemical transport models, weather prediction models, and regional/global climate models. We also welcome the submission of research on the linkage of aerosol microphysical properties to environmental and climatic impacts through the use of numerical models.

Guest Editors

Dr. Tianyi Fan

Faculty of Geographical Science, College of Earth System Science, Beijing Normal University, Beijing 100875, China

Dr. Pengfei Yu

Institute of Environment and Climate Research, Jinan University, Guangzhou 510632, China

Deadline for manuscript submissions

closed (31 July 2024)



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/178392

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))