atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9

Transport Processes in the Atmosphere

Guest Editor:

Dr. Wenbo Tang
School of Mathematical and Statistical Sciences, Arizona State University, Tempe, AZ 85287, USA

Deadline for manuscript submissions:
closed (25 October 2023)

Message from the Guest Editor

Transport and mixing in fluids are ubiquitous in nature, and Lagrangian dynamics play important roles in shaping these processes. They have far-reaching implications in many interwoven fields across different scales and among various disciplines. At the core of these studies, the collective information on trajectories of passive or active tracers embedded in some background flows dictates how transport barriers and corridors form, and how models and analyses of related fields can be formulated around such dynamical patterns. This Special Issue brings together related expertise on Lagrangian transport and mixing processes in the atmosphere. The aim is to cross-fertilize advances in applied mathematics and geophysics to improve our understanding of atmospheric transport. Original research or review papers are welcome covering a wide range of topics, including but not limited to:

- Theories and methods on Lagrangian dynamics related to the atmosphere;
- Relevant numerical and computational tool developments;
- Analyses and re-analyses of atmospheric transport processes at different scales;
- Lagrangian modeling, chemical tracer dynamics.

atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.9

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