

Special Issue

Indoor Air Quality in the Built Environment: Characterization, Dynamics, and Control Strategies

Message from the Guest Editor

Indoor air quality (IAQ) has become an increasingly important area of research as people spend most of their lives in indoor built environments, including residences, workplaces, schools, and community spaces, where chemical concentrations often exceed those found in outdoor (ambient) air. IAQ is influenced by a complex mix of sources, including emissions from building materials, consumer products, and occupant activities and behavior, as well as the infiltration of outdoor air and subsurface vapor (i.e., vapor intrusion). Energy efficiency practices and modern building designs, while critical for sustainability, have also resulted in more airtight building envelopes that may amplify indoor air concentrations. This Special Issue invites contributions focused on the characterization, dynamics, and control of indoor air quality within the built environment. Topics of interest include source identification and characterization, transport and fate of particulate and gas-phase contaminants, and emerging methods for IAQ monitoring and modeling.

Guest Editor

Dr. Chase Holton
GSI Environmental, Inc., Lakewood, CO, USA

Deadline for manuscript submissions

30 April 2026



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/253322

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))