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

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Deadline for manuscript submissions

closed (30 April 2026)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/253322

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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

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