

## Special Issue

# Future-Proofing Buildings for Enhanced Indoor Air Quality and Thermal Comfort: An Opportunity for Resilient Tomorrow

### Message from the Guest Editors

From a research point of view, indoor thermal comfort and air quality have remained key challenges in creating resilient buildings, and therefore require a deep insight. This Special Issue aims to gather comprehensive research studies in indoor thermal comfort and air quality to help shape a resilient future. The topics of interest include, but are not limited to, the following:

- Indoor environment and air quality monitoring and occupants' perception;
- The impact of energy use and occupants' behaviour on indoor air quality;
- The interaction between outdoor air quality, indoor environment, occupants' behaviour, and building energy use;
- The effect of natural and mechanical ventilation in indoor air quality and thermal comfort;
- Subjective indoor air quality and thermal comfort;
- Summer-time overheating and winter discomfort;
- The impact of energy efficient buildings on IAQ and thermal comfort;
- Thermal performance of buildings;
- Building adaptation and thermal comfort;
- Climate change and resilient buildings;
- Health, occupant performance, and productivity in climate-responsive buildings;
- Personalised comfort and IAQ in net-zero buildings.

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### Guest Editors

Dr. Sahar Zahiri

Prof. Dr. Hasim Altan

Prof. Dr. Jitka Mohelnikova

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### Deadline for manuscript submissions

closed (10 March 2025)



## Atmosphere

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## 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!

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### Editor-in-Chief

Dr. Daniele Contini

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