

Special Issue

Air Quality in the Era of Net-Zero Buildings

Message from the Guest Editors

This Special Issue focuses on the complex and evolving relationship between net-zero buildings and air quality and thermal comfort, with an emphasis on interdisciplinary, evidence-based research. We aim to investigate how low-carbon design, retrofit strategies, and operational practices impact exposure to pollutants, ventilation effectiveness, and occupant well-being across various building types and climate contexts. The scope of the Special Issue includes, but is not limited to, the following topics: indoor air quality monitoring and modelling in low-energy buildings; thermal comfort; the impacts of retrofit measures on pollutant dynamics; air quality modelling and simulation; interactions between indoor and outdoor air; innovative ventilation solutions; and the co-benefits and trade-offs between energy efficiency and environmental health (i.e., thermal comfort and associated illnesses related to air quality and heat stress). Contributions exploring policy, standards, or post-occupancy evaluation are also welcome.

Guest Editors

Dr. Alejandro Moreno-Rangel

Prof. Dr. Genny Carrillo

Prof. Dr. Lori McElroy

Dr. Hanan Al-Khatiri

Deadline for manuscript submissions

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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!

Editor-in-Chief

Dr. Daniele Contini

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