

Special Issue

Sustainable Future-Proofing of Heating and Cooling in Buildings: Heat Pumps, Passive Measures, and Low-Carbon Interventions

Message from the Guest Editors

The increase in the global temperatures and carbon emissions, accompanied by recent geo-political developments, has triggered drastic measures by most governments to reduce the dependency of heating and cooling in buildings on fossil fuels. This Special Issue is focused on new methodologies, low-carbon strategies and technologies, passive cooling and heating measures, and heat pumps to reduce the fossil fuel-reliance of heating and cooling in buildings. We invite researchers to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the recent advances and innovation in these research fields. Manuscripts combining experimental implementation with theoretical calculations and technoeconomic assessment are also welcome. Topics for the Special Issue include, but are not limited to, the following:

- Sustainable transition to low-carbon heating and cooling in buildings;
- Passive measures to reduce demand and fossil fuel dependency in buildings;
- Occupants' comfort, health and wellbeing in a changing climate;
- Energy flexibility and resilience in the built environment;

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Guest Editors

Dr. Ali Badiei
Dr. Arash Bezaee
Dr. Jing Li

Deadline for manuscript submissions

closed (29 February 2024)



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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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