Special Issue

Enhancing Thermal Comfort and Climate Resilience of Buildings during Extreme Events

Message from the Guest Editor

Extreme climatic events are threatening today's cities and posing crucial challenges to buildings' comfort. Together with providing resilient cooling solutions that increase the penetration and share of central and personalized cooling and heating systems to decarbonize the energy supply, it is also essential to make buildings resilient against climate variations and extremes. The risks and consequences of long-term and short extreme climate events are amplified in buildings that require strict thermal comfort conditions with vulnerable user profiles. A failure in assuring minimum thermal comfort or indoor air quality levels can propagate toward occupants' evacuations, stroke risk, or increased mortality rates inducing cascading failures. Therefore, evaluating buildings' resilience against short, long-term, and short climate change-related disruptions is vital to decrease such risks and safely prepare the newly built and existing climate-proof. This special issue aims to provide a long-lasting contribution to occupant health and comfort in buildings to strengthen interdisciplinary research and share the dynamics and cutting-edge views in the related fields mentioned above.

Guest Editor

Prof. Dr. Shady Attia

Sustainable Building Design (SBD) Lab, Department of Urban & Environmental Engineering (UEE), Faculty of Applied Sciences, Université de Liège, 4000 Liège, Belgium

Deadline for manuscript submissions

closed (30 June 2024)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/139708

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

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

