Special Issue

Sustainable Energy Saving Building Envelopes

Message from the Guest Editors

Designing sustainable energy-efficient buildings is the key to reducing the carbon footprint from the building sector, which typically contributes to at least 30–40% of carbon emissions in most countries. Building energy efficiency can be achieved by the use of highly efficient and intelligent smart systems. However, the first and critical area to be addressed is the building envelope. The best envelopes are those which produce the least carbon emissions during manufacturing and construction, have a long lifetime and reduce the energy and humidity transfer into the conditioned areas of the building while using optimal daylighting techniques. As such, the scope of this Special Issue focuses on novel developments in energy-efficient building envelopes such as (but not limited to)

- Low-e glass / electrochromic smart glass developments:
- Cool paints:
- Solar films for glass facades;
- Lightweight, low cost, good insulating materials;
- Phase change material embedment over roofs or facades:
- Green roofs and walls;
- BIPV facades, windows etc.;
- Novel shades and blind systems.

Guest Editors

Dr. Sivanand Somasundaram

Experimental Power Grid Centre of Energy Research Institute (Nanyang Technological University), Jurong Island 627590, Singapore

Dr. Swapnil Dubey

Energy Research Institute at Nanyang Technological Institute (ERI@N), Singapore 637553, Singapore

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

mdpi.com/journal/ sustainability





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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. *Sustainability* publishes original research articles, review 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. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G OC5, Canada

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