Special Issue

Smart and Innovative Solutions for Adaptive Facade Systems

Message from the Guest Editors

Adaptive Façade Systems (AFS) have the capacity to adjust their performance in response to different stimulus, making them a promising solution for reducing the energy consumption of buildings while improving the indoor thermal comfort. Building regulations typically address the reduction of the energy demand by imposing high insulation levels and limiting airtightness. In mild climates, and, also, in cold climates due to climatic changes, this approach can however lead to discomfort issues, since, during the year, several periods occur in which an increased heat flux, towards the exterior, across the envelope would be beneficial... This Special Issue aims at stimulating the exchange of ideas and knowledge on the use of smart and innovative solutions for adaptive façade systems. Relevant topics to this special issue include, but are not limited to the following:

- dynamic insulation
- switchable windows
- adaptable shading systems
- active insulation systems
- new insulation materials
- smart technology towards an intelligent envelope.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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