Special Issue

Smart Energy Buildings of the Future

Message from the Guest Editors

The building sector can provide an important contribution to mitigate climate change by reducing the energy demand and increasing the use of non-renewable energy sources. Therefore, innovative and high performing solutions to new and retrofitted building envelope and systems are needed to support the transformation towards net-zero energy and carbon buildings, whilst enhancing the indoor comfort conditions. This challenge has led to the search, not only for smart building materials and solutions to be integrated in the building envelope, but also for smart integration and management of building services and energy systems, with higher operability and performance than static solutions. A deeper insight and understanding of smart solutions and applications in buildings is decisive for the definition of strategies, in a rational and technically informed way, to meet the energy and climate-neutral targets for the buildings of the future. This Special Issue intends to provide an overview of the existing knowledge related with various aspects of Smart Energy Buildings of the Future.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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