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Solar Building, Heating, and Cooling: Advanced Construction Materials, Systems, and Practices

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Message from the Guest Editor

Dear Colleagues,

The currently established and forward-looking trends in advanced construction and architecture feature an ever-increasing focus on ensuring maximised energy efficiency in buildings and utilisation of renewable energy sources. Building integrated photovoltaics (BIPV) and other approaches to the “solarisation” of construction sector practices are rapidly becoming mainstream directions in modern architectural design. These also include multiple existing and new solar-powered heating and cooling technologies, working in conjunction with building-integrated electricity generation and distribution technologies. Continued progress in the aforementioned areas will play a key role globally in several emergent economy sectors, such as smart cities development, the Internet of Things, and widespread distributed electricity generation networks. This Special Issue aims at gathering selected papers on unconventional and emergent solar energy applications, linked to novel construction materials and practices.

Dr. Mikhail Vasiliev
Guest Editor



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Message from the Editor-in-Chief

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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