

Special Issue

Climate-Responsive Strategies for Sustainable Infrastructure

Message from the Guest Editors

Infrastructure sustainability has been a key focus area for some time and alternative climate-responsive strategies and materials for sustainable infrastructure, in terms of buildings, roadways, bridges, and other structures, are explored by the research and practicing engineering community on an ongoing basis around the world. This Special Issue aims to include up-to-date research articles on studies that (i) explore alternative design and passive strategies for sustainable cities and communities, and (ii) assess pertinent low-carbon and recycled materials that may be considered in such strategies and quantify both the economic and environmental benefits thereof. For example, buildings may rely on passive and active strategies that use natural elements like solar energy, airflow, and site conditions to minimize energy consumption and boost the availability of renewables. Similarly, for roadways and urban surfaces the design of perpetual pavements and permeable surfaces, and use of low-carbon and recycled materials, may provide significant economic and environmental benefits, including improvements to the impact of albedo or reductions in the urban heat island effect.

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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.

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