



## **Sustainable Built Environment: Advanced Ventilation and Energy Efficient Technologies**

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### **Message from the Guest Editors**

The building sector consumes a significant amount of global energy usage, and energy consumption in buildings will continuously increase in forthcoming years due to the rapid increase in the living standards and the wide deployment of air conditioning systems, as well as climate change. Improving energy efficiency in buildings and creating a sustainable and healthy built environment are essential to reducing global energy usage, enabling the productivity and wellbeing of occupants, and enhancing national and international energy security.

Deadline for manuscript  
submissions:

**closed (20 December 2019)**





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## Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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