

Special Issue

Ventilation and Passive Cooling for Healthy and Comfortable Buildings

Message from the Guest Editors

The building sector has substantial scope to reduce the energy use associated with the operation and maintenance of buildings worldwide. Of this total energy demand, heating, ventilation and air-conditioning (HVAC) accounts more than half of the electricity consumption. Passive strategies, in particular natural ventilation, are one of the main techniques to moderate temperatures in buildings, reduce operating cost and provide better indoor air quality and comfort. The aim of the proposed issue is to present the recent developments on the modelling and experimental methods for the analysis of ventilation and passive cooling technologies/strategies. We invite researchers to contribute original research articles and review articles, dealing with all aspects of passive cooling and ventilation in the built environment. These contributions include new modeling and experimental studies, methods and advances focused on the evaluation of indoor ventilation, flow and pollutants.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2019)



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