

Special Issue

Thermal Energy Storage and Desiccant-Based HVAC System Design for Net Zero Energy Building

Message from the Guest Editors

Due to a rapid rise in the energy demand of buildings in recent decades, the transition to net zero energy building (NZEB) (100% energy conversion) has been realized globally.

According to the International Energy Agency (IEA), a large portion of building energy is spent for space cooling and heating. Therefore, design and implementation of energy efficient cooling and heating technology is of utmost importance to achieve the ambitious NZEB goal.

The scope of this Special Issue encompasses any recent developments in the PCM based thermal energy storage and desiccant based HVAC system design that could potentially reduce the primary energy consumption in the buildings. Design, synthesis, characterization and performance evaluation of novel functional materials, as well as their application in the system, novel system design, and their performance evaluation relating to building energy reduction will be given priority for publication. All the submitted articles will go through standard peer-review process prior to acceptance.

Guest Editors

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Deadline for manuscript submissions

closed (25 March 2023)



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