



Phase Change Materials and Storage Applications

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Message from the Guest Editors

Dear Colleagues,

Thermal energy storage (TES) has been proven to be a technological solution to decrease energy consumption and CO₂ emissions towards NetZero policies. TES can overcome the temporal and geographical mismatch faced by other technologies. Among TES technologies, latent heat TES, which uses phase change materials (PCMs), can store and deliver heat at a quasi-isothermal temperature. For decades, different PCMs (organics, inorganics, eutectics) have been developed, studied, and tested under operational conditions. However, recent advances have shown improved thermophysical properties and heat transfer behaviour following different strategies such as including the use of fins, dispersion of nanomaterials, or encapsulation.

This Special Issue aims to provide up-to-date studies on the integration of PCMs in different storage applications, where PCM development has improved the system performance. Original research articles (experimental or numerical) and reviews are welcome.

We look forward to receiving your contributions.





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Message from the Editor-in-Chief

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