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New Advances in Thermal Energy Storage and Phase Change Materials

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Message from the Guest Editor

This Special Issue is designed to foster collaboration and knowledge dissemination among scientists, engineers, and researchers from around the world.

We welcome contributions encompassing a wide range of topics within the scope of this Special Issue, including but not limited to the following:

1. Innovative PCM materials and formulations;
2. Advanced thermal energy storage systems;
3. PCM-enhanced applications in renewable energy;
4. Numerical modeling and simulation of PCM behavior;
5. Heat transfer and thermal performance analysis of PCM-based systems;
6. Sustainable and environmentally friendly thermal storage solutions;
7. Integration of PCMs in building and HVAC technologies for flexibility in shedding and shifting building loads and improved thermal comfort of occupants;
8. Application of thermal energy systems in other heating and cooling systems;
9. Innovative control strategies for thermal energy storage and phase change materials;
10. Improvements in the temporal and spatial control of heat flows to optimize storage capacity use and reduce overall system costs.



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Message from the Editor-in-Chief

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