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Emerging Trends in Phase Change Materials for Energy Storage and Conversion

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Deadline for manuscript submissions:

closed (20 March 2024)

Message from the Guest Editors

Dear Colleagues,

Phase Change Materials (PCMs) have garnered significant attention in recent years due to their remarkable ability to store and release energy during phase transitions. This Special Issue aims to provide a platform for researchers and experts to share their latest findings, breakthroughs, and innovations in the realm of PCMs.

Topics include, but are not limited to, the following:

- Novel synthesis methods and characterization techniques for PCMs;
- Advanced applications of PCMs in thermal energy storage systems;
- PCM-enhanced heat transfer fluids for industrial processes;
- PCMs in solar thermal energy storage and concentrated solar power;
- PCM-based energy storage for sustainable building technologies;
- PCMs in advanced cooling technologies for electronics;
- PCMs in renewable energy conversion systems;
- PCMs for thermal regulation in smart textiles;
- PCM applications in energy-efficient data centers;
- Bio-based and environmentally friendly PCMs for energy storage.

We invite researchers to submit their original research articles, reviews, and short communications that contribute to the progress of PCM technologies for energy storage and conversion.



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Special Issue



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Message from the Editor-in-Chief

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