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Future Challenges of Thermodynamic and Electrochemical Corrosion Analysis in Energy Storage Materials

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Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on recent advances in the thermodynamic and electrochemical corrosion properties of thermal energy storage materials at low, medium and high temperatures, and will address a wide range of applications, including building efficiency, renewable energy technologies or industrial waste heat recovery.

The scope of this Special Issue includes, but is not limited to, the following:

- The development of TES materials for sensible, latent and thermochemical energy storage systems;
- Advanced TES materials for concentrated solar power technology;
- Sorption and chemical reaction control;
- The simulation of thermodynamic properties of materials and coatings;
- Corrosion studies on TES systems and mitigation strategies;
- The development of tools for corrosion monitoring;
- The enhancement of the thermal properties of TES materials;
- Modelling and simulation of TES materials.



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Special Issue



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Message from the Editor-in-Chief

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