

Special Issue

Research in Thermal Energy Storage Materials

Message from the Guest Editors

Thermal storage technologies play an emerging role in various fields of applications for energy production from renewables. For all thermal storage materials, charging is associated with heating, followed by a phase transition in the case of latent storage materials or a chemical reaction in the case of thermochemical storage materials.

The Special Issue “Research in Thermal Energy Storage Materials” therefore aims to focus on relevant material properties and material modification strategies. As thermal storage materials to a large extent comprise crystalline inorganic or organic systems, a focus is set on respective compounds in order to identify new, potential reaction systems, study the structure-related properties during charging and discharging, and research thermophysical and chemical properties as well as modification strategies using defect generation or doping and (re-) crystallization mechanisms. Respective contributions can have a focus on fundamental material properties investigated at lab scale or can be application oriented, regarding the respective materials systems in bulk scale.

Guest Editors

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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