Special Issue

Research in Compounds, Materials, Reactors and Processes for Thermochemical Energy Storage

Message from the Guest Editors

Thermal storage technologies play an emerging role in various applications for energy production from renewables.

In thermal storage materials, charging is associated with heating, followed by a phase transition in cases of latent storage materials or a chemical reaction in cases of thermochemical storage materials. Since all thermal storage or heat conversion systems are units consisting of a reactor and a storage medium, both parts must have a matching functionality to ensure efficient long-term operation.

The Special Issue entitled “Research in Compounds, Materials, Reactors and Processes for Thermochemical Energy Storage” therefore wants to focus on current interdisciplinary approaches addressing the development and applications of thermal storage devices.

Respective contributions may have a focus on fundamental materials’ properties, crystallization and reaction processes investigated in the lab or in application, particularly regarding the properties and performance of respective material systems or reactors on a technical scale.

Guest Editors

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About the Journal

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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