Special Issue

Cement-Based Composites: Advancements in Development and Characterization

Message from the Guest Editors

Concrete, a composite material composed of cement, water, aggregates, and often admixtures, is the most produced human-made material in the world. This material is an indispensable element of modern societies and is used in most of today's constructed engineering structures. Concrete structures need to satisfy specific characteristics in terms of mechanical performance and long-term durability so that they can be used without serious consideration of maintenance for many decades. Therefore, methods for the production of advanced high-performance composites are actively required. Due to their composite nature, the choice of proper individual components and their interaction and compatibility play a vital role in shaping the final properties of cement-based composites. In addition, numerical approaches to modeling and evaluating a material's characteristics and properties can also be used to accelerate the material's development.

The aim of this Special Issue is to showcase the latest research and advances in the field of cement-based composites. Original research papers, state-of-the-art reviews, and short communications are welcome.

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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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