Special Issue

Macromolecular Crystalline Materials (MCMs) for Clean Energy and Green Environment

Message from the Guest Editors

Macromolecular crystalline materials (MCMs) have been at the forefront of chemistry and material science due to several advantages, such as structure–property correlation, intricate design, and tunable architectures. The synthesis and characterization of such inorganic, organic, and hybrid macromolecular crystalline materials prompts scientists to explore target-specific applications which could be useful from both an energy and environmental standpoint. Given the high energy demand and the impacts it has globally, routes for the quest for novel materials which could address this escalating issue are currently very significant. Additionally, several environmental issues such as air and water pollution, which includes wastewater treatment, air purification, etc., also need to be addressed for a sustainable future. In this regard, crystalline materials have emerged as one of the leading candidates in material science which have shown significant potential in tackling several key energy and environmental problems. Given their structural facets, scientists have the scope to design suitable crystalline materials which can then be used for multiple applications.

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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