Special Issue

Organic–Inorganic Compounds: Synthesis, Crystal Structure and Photophysical Properties

Message from the Guest Editor

Organic–inorganic compounds, also known as hybrid materials, have garnered significant attention since the early 20th century. These materials, which combine the versatility of organic molecules with the robust properties of inorganic frameworks, have been extensively studied for their unique and enhanced properties. Over the past few decades, advances in synthesis techniques and a deeper understanding of their crystal structures have led to remarkable improvements in their photophysical properties. These hybrid materials offer a multitude of advantages, including tunable optical and electronic properties, diverse functionalities, and potential applications in fields such as photovoltaics, light-emitting diodes, photocatalysis, gas storage, batteries, and sensors. This Special Issue aims to highlight the latest advancements and address the key challenges in this exciting field. We will focus on innovative synthesis strategies, detailed crystal structure analysis, and the exploration of photophysical phenomena to provide insights into the design and application of these complex materials.

Guest Editor

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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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