Special Issue

Properties and Synthesis of Luminescent Materials

Message from the Guest Editors

This Special Issue aims to encourage scientists to showcase the latest developments in phosphor materials, emphasizing novel designs, innovative synthesis strategies, and advanced characterization methods. Contributions that elucidate the structure–property relationships and explore new application domains are particularly welcome.

In this Special Issue topics of interest include, but are not limited to, the following:

Design, optimization, and synthesis of novel luminescent materials (e.g., single crystals, powders, ceramics, nanostructures);
Rare-earth and transition-metal-doped luminescent structures;
Carbon-based luminescent materials and quantum dots;
Structure–property relationships in luminescent materials;
Photoluminescence mechanisms and quantum efficiency;
Nanophosphors for bioimaging and diagnostics;
Phosphors for LEDs and solid-state lighting;
Luminescent materials for photocatalysis;
Defect engineering and thermoluminescence studies;
Advances in fundamental research and applications of phosphors.

We look forward to your valuable submissions and to your participation in advancing the science of luminescent materials.

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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