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Scintillator & Phosphor Materials

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Message from the Guest Editors

Dear Colleagues,

Scintillator and phosphor materials are used as radiation converting media in many fields of research and scientific applications, such as nuclear physics and high-energy physics, astrophysics, radiation dosimetry for medical and non-medical applications, imaging, spectroscopy, radiation monitoring in environmental studies, and industrial applications.

Nowadays, research activity is directed towards mixed and co-doped inorganic phosphor materials, single crystals and optical ceramic materials, organic crystals, nano-scintillators and quantum dots, luminescent biomarkers, luminescent dopants, optoelectronics and displays aiming to obtain higher performances, in accordance with the requirements of various applications.

The aim of this Special Issue is to collect contributions about scintillator and phosphor materials, involving growth production and experimental evaluation, new crystalline hosts and co-doped scintillator materials, and the integration of scintillators and phosphors into various devices and applications, as well as theoretical calculations.

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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.

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