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Structural and Spectroscopic Studies of Rare Earth Doped Crystals

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Message from the Guest Editors

In recent decades, rare-earth (RE) dopants have played a crucial role in the development of functional materials, and have been used in the materials to improve their properties and expand their applications. RE compounds exhibit a wide variety of optical, luminescent, magnetic, and multiferroic properties. They are promising candidates for optical signal processing, lasing, optical quantum technologies, quantum nanophotonics, free-space optical communication, bioimaging, laser cooling. However, the interplay between their structural and spectroscopic characteristics is still under debate. The Special Issue "Structural and Spectroscopic Studies of Rare Earth Doped Crystals" is concerned with some key problems selected from a wide range of structural and spectroscopic studies of RE-activated solids, including both crystalline and glassy materials.

Deadline for manuscript
submissions:

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Special Issue



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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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