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Rare Earths-Doped Materials

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Message from the Guest Editors

In recent years, the supply and the prices of the rare earth elements on the world market have seen high peaks and deep valleys, causing insecurity and anxiety in the world community. In spite of this turbulence, the interest in these elements has not faded. They are attracting attention due to their properties that allow a wide range of applications in optoelectronics, fiber amplifiers, solid-state lasers, telecommunications, biosensing, photocatalysis, etc. This Special Issue intends to focus on the research and investigation of REE-doped materials, on the methods for their synthesis and characterization, and the development of new properties. The way REEs can enhance the optical, magnetic, photocatalytic, biologically active properties of different materials is still a matter of increasingly intensive research. Among the large number of Special Issues published in *Crystals* by MDPI, the subject of REEs-doped materials has not yet been treated. We want to correct this omission with this coming 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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