



Rare-Earth Metal Compounds (2nd Edition)

Guest Editor:

Prof. Dr. Thomas Schleid

Institute for Inorganic Chemistry,
University of Stuttgart, 70569
Stuttgart, Germany

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Message from the Guest Editor

"These elements perplex us in our researches, baffle us in our speculations, and haunt us in our very dreams. They stretch like an unknown sea before us—mocking, mystifying, and murmuring strange revelations and possibilities" (Sir William Crookes, 1887). These words—135 years old, but still true—are from a rare-earth metal pioneer, who contributed greatly to the commercialization of science. "The Fraternal Fifteen" ($L_n = \text{La} + \text{Ce-Lu}$), as "mister rare earth" Karl A. Gschneidner, Jr., called the most similar of them in his 1966 book, were brought to a broader public in the 20th century, emphasizing their benefits to mankind. Even now, when it is more common knowledge that the rare earths are "Neither Rare, Nor Earths" ($RE = \text{Sc}, \text{Y}, \text{La} + \text{Ce} - \text{Lu}$) (BBC World Service (2014)), we encourage authors in the field to contribute to this Special Issue of *Crystals* with the crystal structures and properties of rare-earth metal compounds for readers in both academia and industry.





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, Italy

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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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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