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Relationships between Processing and Properties of Magnesium-Based Alloys

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Message from the Guest Editors

The focus of this issue is on the relationship between processes and properties of magnesium-based alloys. Contributions are intended to show the influence of the manufacturing process, e.g., casting, extrusion, heat treatment, sintering, and processing parameters, e.g., temperature, time, cooling, on the property profile. This encompasses microstructural development such as changes in grain size or texture, as well as mechanical properties, but also corrosion properties for mechanical engineering applications or degradation properties for medical applications. In addition to classic empirical research and development methods, modelling and simulation approaches are becoming more and more important. They can be used for a deeper understanding of composition–microstructure–property relations and show evidence for accelerated, sustainable materials development, and process design. The editors therefore welcome all contributions that add knowledge to this thematic field.



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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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