

Special Issue

Properties, Microstructure and Forming of Intermetallics—2nd Edition

Message from the Guest Editors

The study of intermetallic compounds has garnered significant attention due to their unique properties, including high melting points, excellent oxidation resistance, and superior mechanical strength. These characteristics make intermetallics ideal for applications in aerospace, automotive, and high-temperature environments. Techniques such as powder metallurgy, additive manufacturing, and hot isostatic pressing are being explored to achieve uniform and refined microstructures. Additionally, efforts are being made to optimize processing parameters to minimize defects and enhance the mechanical properties of intermetallics. As the understanding of intermetallics deepens, these materials are poised to play a critical role in next-generation engineering applications, offering a combination of light weight and high performance. With the recent development of AI-enable design, processing and manufacturing, the ongoing research continues to bridge the gap between fundamental science and practical applications, paving the way for innovative solutions in materials engineering.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

Prof. Dr. Yong Zhang

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