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Crystallization of High Performance Metallic Materials

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Message from the Guest Editors

The current Special Issue emphasizes crystallization behaviors in high-performance metallic materials. Both solidification and solid-phase transformation are considered, and conventional construction materials, e.g., steels or high-temperature alloys, as well as novel alloy grades, e.g., high entropy alloys, are included. State-of-the-art characterization methods as well as simulation and modelling work regarding crystallization are included. Finally, particle behaviors associated with crystallization, i.e., non-metallic inclusion and precipitate behaviors during solidification and post-process in high-performance alloys are included. In addition, the crystallization behavior of slag and heat flux used for metals' manufacturing is also included. Authors from academia and industry are therefore invited to submit their original research and review contributions on crystallization of high-performance metallic materials to the current Special Issue.



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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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