Special Issue

Research Progress of Eutectic Alloys

Message from the Guest Editors

Eutectic alloys, characterized by their unique microstructure formed through the simultaneous solidification of two or more phases from a liquid mixture, have garnered significant attention in materials science due to their exceptional castability, mechanical, thermal, and functional properties. This Special Issue delves into the recent advancements in eutectic alloys, encompassing microstructure control, mechanical property enhancement, functional property exploration, additive manufacturing, future trends, the development of novel eutectic systems, computational materials design, sustainable eutectic alloys, and so on. The alloy systems include but are not limited to Al-based eutectics, Mg-based eutectics, Ti-based eutectics, Fe-based eutectics, and high-entropy eutectics. This Special Issue aims to provide a comprehensive overview of the latest research progress in eutectic alloys, highlighting their potential for addressing critical challenges in various engineering fields.

Guest Editors

Dr. Yong Dong

Innovation & Interdisciplinary Research Institute of Low Carbon Metallurgical Engineering, School of Materials and Energy, Guangdong University of Technology, Guangzhou 510006, China

Dr. Chuanqiang Li

School of Materials and Energy, Guangdong University of Technology, Guangzhou 510006, China

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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