## **Special Issue**

# Design and Development of Al Alloys and Composites

#### Message from the Guest Editors

Aluminium is an extremely versatile metal with plenty of advantages, including light weight, corrosion resistance, mechanical property, electrical and thermal conductivity, recyclability, etc., and it can be manufactured into a variety of shapes suitable for a range of applications. With great contributions from research institutes and manufacturing industries, a deeper and deeper understanding with a wider and wider range of achievements have been obtained in the field of composition design, manufacturing process, and microstructure characterisation, and we realise the properties of Al could be tailored based on the relationship between microstructure and properties.

We invite researchers to contribute to this Special Issue on the design and development of Al alloys and composites, which is intended to serve as a unique multidisciplinary forum covering broad aspects of materials design, manufacturing technology, solidification behaviour, microstructure characterisation, simulation, and machine learning in research and development of materials, to inspire the innovation in Al alloys and composites.

#### **Guest Editors**

Dr. Yijie Zhang

Prof. Dr. Zhifeng Zhang

Prof. Dr. Zhiming Shi

Dr. Anna Knaislova

#### **Deadline for manuscript submissions**

closed (30 April 2022)



an Open Access Journal by MDPI

Impact Factor 2.4 CiteScore 5.0



mdpi.com/si/65101

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

mdpi.com/journal/ crystals





an Open Access Journal by MDPI

Impact Factor 2.4 CiteScore 5.0



### **About the Journal**

#### 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, Pl, Italy

#### **Author Benefits**

#### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)

