Special Issue

High-Entropy Alloys

Message from the Guest Editors

High-entropy alloys are a relatively new class of alloy, which do not possess one principle element as the basis for the alloy; instead, they have highly complex chemistries and often contain more than five elements in large percentages. These complex chemistries have revealed a range of new and very exciting properties in high-entropy alloys, making them of interest in a range of different applications. Since high-entropy alloy development is still relatively new, there is also really exciting fundamental work to be carried out in this field, for example: the effect of chemical segregation on the properties; the atomic scale arrangement in these chemically complex alloys, the kinetics of phase transformations, the diffusivity of different species in these complex crystal structures, and how dislocations move through such a complex local environment, just to name a few. So, it can be seen that, there is a lot of interesting and important work being carried out in the field of high-entropy alloy development. We have therefore dedicated this Special Issue to high-entropy alloys and welcome the submission of papers on this new alloy class.

Guest Editors

Prof. Dr. Peter Hodgson

Prof. Dr. Daniel Fabijanic

Dr. Jithin Joseph

Deadline for manuscript submissions

31 December 2025

Alloys

an Open Access Journal by MDPI

CiteScore 3.2

mdpi.com/si/132400

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

mdpi.com/journal/alloys

Alloys

an Open Access Journal by MDPI

CiteScore 3.2

mdpi.com/journal/alloys

MDPI

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Nikki Stanford
Future Industries Institute, University of South Australia, Building MM, Mawson Lakes Campus, Mawson Lakes, SA 5095, Australia

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus and other databases.

Journal Rank:

CiteScore - Q2 (Metals and Alloys)