



crystals



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Feature Papers in Crystalline Metals and Alloys in 2022-2023

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Deadline for manuscript
submissions:

31 December 2023

Message from the Guest Editors

The journal *Crystals* (ISSN: 2073-4352) is pleased to announce the launch of a Special Issue titled “Feature Papers in Crystalline Metals and Alloys in 2022-2023”.

The Crystalline Metals and Alloys section aims to publish high-quality theoretical and/or experimental studies related to crystalline metals, alloys, and intermetallics. Topics include, but are not limited to, the following:

- Solidification and crystallization;
- Casting, welding, and additive manufacturing;
- Thermomechanical processes and high deformations;
- Recrystallization, grain growth, and textures;
- Martensite, twins, and displacive phase transformations;
- Order–disorder, precipitation, and diffusive phase transformations;
- Classical alloys, such as Mg-, Al-, Ti-, Fe-, Ni-, Zr-, and Cu-based alloys;
- Advanced alloys, such as TWIP and TRIP steels and Ti alloys;
- Precious alloys, for example, those based on Au, Pt, or Pd;
- Shape memory alloys (SMAs) and high-entropy alloys (HEAs);
- Non-standard heat treatment
- Characterization techniques, such as optical microscopy, X-ray diffraction, electron microscopy (SEM, TEM, EBSD), calorimetry, dilatometry, mechanical tests, and in situ experiments.



mdpi.com/si/124034

Special Issue



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Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

Crystals is a good platform for dissemination of knowledge in this area.

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