



Mechanical Alloying 2021

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submissions:

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Message from the Guest Editor

Mechanical alloying was selected as the most appropriate processing method to produce oxide dispersion strengthened (ODS) alloys that can be used in high-temperature and radiation resistance applications. In recent years, the MA technique has been widely used in the fabrication of high-entropy alloys. This Special Issue will include all aspects of the theory, methods, materials, and applications of mechanical alloying.

Contributions in the following topics are encouraged:

- New materials: High-entropy alloys, metallic glass amorphous alloys, oxide dispersion strengthened (ODS) alloys, superalloys, refractory metals, and nanocomposites;
- Synthesis and processing in solid-state science and technology: high-energy milling, severe plastic deformation of materials (SPD), and reaction milling;
- Structural characterization: mechanically induced structural changes in materials (point defects, dislocations, clusters, precipitates, grain boundaries), surfaces, and interfaces in activated solids;
- New equipment and procedures: milling equipment based on improved milling dynamics, processing optimization, and milling contamination.





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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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