

## Special Issue

# Mechanical Alloying 2018

### Message from the Guest Editor

Materials fabricated using mechanical alloying (MA) make a significant contribution to industrial applications. They represent a highly-diverse and strongly multidisciplinary area, with links to numerous industrial sectors. Mechanical alloying was selected as the most appropriate processing method to produce oxide dispersion strengthened (ODS) alloys. This Special Issue will include all aspects of theory, methods, materials and applications of mechanical alloying. Contributions in the following topics are encouraged:

- Synthesis and processing in solid-state science and technology: high-energy milling, severe plastic deformation of materials (SPD), reaction milling.
- New materials/processes: oxide dispersion strengthened (ODS) alloys, nanomaterial, nano-composites, and quasi-crystalline phases/materials.
- Structural characterization: mechanically induced structural changes in materials (point defects, dislocations, clusters, precipitates), 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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### Guest Editor

Prof. Dr. Chun-Liang Chen  
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### Deadline for manuscript submissions

closed (31 December 2018)



## Metals

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## About the Journal

### Message from the Editor-in-Chief

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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### Editor-in-Chief

Prof. Dr. Yong Zhang

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JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).