



Oxide Dispersion Strengthened High Entropy Alloy and Mechanical Alloying

Guest Editor:

Prof. Dr. Chun-Liang Chen

Department of Materials Science
and Engineering, National Dong
Hwa University, Hualien 97401,
Taiwan

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Message from the Guest Editor

Dear Colleagues,

Materials fabricated using mechanical alloying (MA) contribute significantly to industrial applications. Mechanical alloying is considered the most appropriate processing method for producing oxide dispersion strengthened (ODS) alloys, which exhibit good creep resistance, thermal stability, wear resistance, and oxidation resistance, among other beneficial properties. In recent years, high-entropy alloys (HEAs) have arisen as a new class of metallic alloys in which the formation of a solid solution rather than intermetallic compounds is favored. Thus, ODS-HEAs are promising structural materials for applications requiring high temperature and radiation resistance due to the high configurational entropy and pinning effect of their dispersed oxide particles, which restrict dislocation motion and restrain grain growth. This Special Issue will consider all aspects of theory, methods, materials, and applications of mechanical alloying. Researchers in the field are encouraged to contribute in this Special Issue.





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Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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Materials Editorial Office
MDPI, Grosspeteranlage 5
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