



## Advances in Metallic Glass and Metallic Glass Composite: Preparation, Structures, Properties and Applications

Guest Editors:

**Dr. Vladislav Yu. Zadorozhnyy**

Department of Physical Materials  
Science, National University of  
Science and Technology  
(MISiS), Moscow, Russia

**Dr. Andrey I. Bazlov**

Department of Physical  
Metallurgy of Non-Ferrous Metals,  
National University of Science  
and Technology (MISiS), Moscow,  
Russia

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### Message from the Guest Editors

Metallic glasses (or amorphous alloys) are currently attracting increased interest due to their unique physical-mechanical properties such as high hardness, large elastic deformation, high fatigue strength, as well as increased wear resistance and corrosion resistance. Numerous studies show that metal glassy alloys have significantly higher mechanical properties than their crystalline analogs. However, due to the peculiarities of their atomic structure, this class of materials is prone to brittle fracture and has extremely low ductility. In this regard, creating composite materials based on metallic glasses could help to avoid most of the disadvantages.

For this Special Issue, we aspire to publish a range of articles covering (i) the preparation of the metal glassy alloys and their composites (amorphous/crystalline composites, metal/polymer composites, etc.), (ii) structural investigation (in solid/liquid state), (iii) properties investigation (mechanical, physical, chemical, biological, etc.), and (iv) applications of the final products, based on metal glassy alloys and their composites (including ribbon, bulk, powder, coatings, thin-films, etc.).





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## Editors-in-Chief

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Department of Materials Science  
and Engineering, College of  
Engineering & Applied Science,  
University of Wisconsin-  
Milwaukee, 3200 N. Cramer  
Street, Milwaukee, WI 53211, USA

### **Prof. Dr. Yong Zhang**

Beijing Advanced Innovation  
Center of Materials Genome  
Engineering, State Key  
Laboratory for Advanced Metals  
and Materials, University of  
Science and Technology Beijing,  
30 Xueyuan Road, Beijing 100083,  
China

## 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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Metals Editorial Office  
MDPI, St. Alban-Anlage 26  
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