# **Special Issue**

# **Hydrogen Storage Alloys**

# Message from the Guest Editor

Hydrogen storage alloy is very important for applications in both solid-state hydrogen storage and nickel-metal hydride batteries. It also makes up the essential components in energy conversion (alkaline fuel cells), chemical processing (reducing agents, strong bases, strong reductants, and catalysts), physical separation processing (desiccants, isotope separation, gas separation, and hydrogen purification), nuclear engineering (neutron moderators, reflectors, and shields), and thermal applications (heat pumps). Recently, nickel-metal hydride batteries, with a new family of superlattice A2B7 metal hydride alloys, were applied successfully in railways, ferries. telecommunication emergency power sources, and new hybrid-electric vehicles with conventional rare-earthbased AB5, in China. For this Special Issue in Metals, we welcome reviews and articles in the areas of principle. theoretical calculation, material preparation and characterization, and applications of hydrogen storage alloys.

#### **Guest Editor**

Dr. Kwo Young

- 1. Department of Chemical Engineering and Material Sciences, Wayne State University, Detroit, MI 48202, USA
- 2. BASF Battery Materials-Ovonic, 2983 Waterview Drive, Rochester Hills, MI 48309, USA

### Deadline for manuscript submissions

closed (30 June 2018)



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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/ 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.

#### Editor-in-Chief

### 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

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