Special Issue

Study on the Development and Applications of Magnesium Alloys

Message from the Guest Editors

Magnesium and its alloys have great potential to be used in the fields of aerospace, aircraft, automotive, portable electronics, biomedical and energy, etc., due to their characteristics such as low density, high specific strength and stiffness, good damping capacity, biocompatibility, high hydrogen storage capacity and easy recyclability. In the last few decades, magnesium alloys have attracted considerable research, and great progress has been achieved. This Special Issue is designed to publish high-quality research papers, short communications as well as review articles regarding the recent advances in development of magnesium alloys as structural and functional materials, and their potential commercial applications. All aspects related to the alloy design, casting, heat treatment and thermomechanical processing of magnesium alloys, deformation, precipitation-hardening, corrosion and hydrogen charging/discharging behaviours of magnesium alloys are welcomed.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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