Special Issue

Properties and Characterizations of Mg Alloys

Message from the Guest Editor

The magnesium alloy is a kind of lightweight structural material with light specific gravity, high specific strength, high specific stiffness, and good electromagnetic shielding, which is known as "the most potential green engineering materials in the 21st century" and widely used in aerospace, electronic communication, automobile manufacturing, and many other fields. With the development of the magnesium alloy, their application fields and prospects are constantly expanding. However, the chemical properties of magnesium alloy are very active and its corrosion resistance is very poor, so the application of magnesium alloys is limited in various fields. Therefore, it is of great theoretical and practical significance to study the corrosion, galvanic corrosion, and fatigue behavior of magnesium alloys, as well as to establish reliable protective measures, such as corrosion inhibitor and coating.

Guest Editor

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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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