Special Issue

High-Performance Light Alloys

Message from the Guest Editors

Light alloys of titanium (Ti), magnesium (Mg), and aluminum (Al) have excellent mechanical and physical properties. They have the potential to replace heavier materials in transportation and aerospace industries targeting weight reduction that will cut down fuel consumption and subsequently mitigate greenhouse gas emissions. New alloy design and methodologies for successful fabrication of light alloys are of keen interest to scientists, and substantial efforts have been devoted to new alloy development. However, it is difficult for these new alloys to replace the commercial materials at present. Novel approaches to renew or redevelop commercial materials to achieve an enhanced properties-to-cost ratio are of great significance both scientifically and economically. This Special Issue will cover research investigations that can significantly increase the properties of commercial light alloys with minimal-to-nil change to the composition of these materials. We also welcome the submission of review papers on this topic. Thank you very much. We look forward to receiving your submissions.

Guest Editors

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Deadline for manuscript submissions

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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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