Special Issue

Friction Stir Processing and Additive Manufacturing in Light Alloys (Mg, Al, Ti) and Their Composites

Message from the Guest Editor

The use of light alloys and of their composites is not limited to portable applications. By careful control of their microstructure and/or by the addition of a wellchosen second phase in composites, light alloys can also meet more stringent and specific requirements in terms of chemical, thermal, or other functional properties for a large variety of applications. Over the last few years, friction stir processing and additive manufacturing—each technique with its own specificities –have emerged as powerful techniques for the production of light alloys and light metal matrix composites with tailored-often complex and hierarchical—microstructures and potentially improved usage properties. This Special Issue of *Materials* thus welcomes contributions on various topics fostering a deeper understanding of the correlations between processing parameters—microstructures and properties in the friction stir processing and additive manufacturing of light alloys (Mg, Al, Ti) and their composites. I kindly invite you to submit a manuscript(s) to this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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About the Journal

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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