Special Issue

Coatings on Light Alloys Substrate

Message from the Guest Editor

This Special Issue of “Coatings on Light Metal Substrates” focuses on the significant developments and in-depth understanding in surface engineering technology to modify and improve the surface properties of magnesium, aluminum and titanium alloys for protection in aggressive environments or enhanced functional performance. Under the premise that the substrate is light metal, the scope of contributions is as follows:

- Improvement and breakthrough of surface engineering technology, including cold and thermal spraying, plasma spraying, surface modification by directed energy techniques, such as ion, electron and laser beams, thermo-chemical treatment, wet chemical and electrochemical processes.
- Engineering application and/or function application of metallic, inorganic, organic and composite coatings.
- Relationships among the processing, the structure and the properties/performance of coatings.
- Theory and/or simulation of the preparation, the service or the failure of coatings; the theory or simulation can substantially advance our understanding on the formation process, the structure and properties of coatings on light metal substrates.

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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