



an Open Access Journal by MDPI

## Coatings on Light Alloys Substrate

Guest Editor:

**Prof. Dr. Hongxiang Li**

State Key Laboratory for  
Advanced Metals and Materials,  
University of Science and  
Technology Beijing, Beijing  
100083, China

Deadline for manuscript  
submissions:

**closed (10 January 2023)**

### Message from the Guest Editor

Dear Colleagues,

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.



[mdpi.com/si/76123](https://mdpi.com/si/76123)

# Special Issue



an Open Access Journal by MDPI

## Editors-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

### Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

## Message from the Editorial Board

*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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

## Contact Us

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)