

Surface Modification of Metals and Alloys

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Message from the Guest Editors

This Special Issue on Surface Modification of Metals and Alloys concerns the many different and innovative approaches that can be used to transform the metallic surface by means of physical, chemical, mechanical or biological characteristics providing different properties from the ones originally found on these surfaces allowing functionality for a given application.

In particular, the topics of interest are:

- Characterization of engineered surfaces (tribological, corrosion, morphology, structure, composition);
- Treatments covering the surface of metals and alloys:
 - Conversion coatings;
 - Spraying processes;
 - Deposition processes;
- Treatments altering the surface of metals and alloys:
 - Mechanical and thermomechanical processes;
 - Laser-beam-based technologies;
 - Diffusion processes;
 - Special processes;
- Functional and multifunctional coatings and films;
- Novel surface modification techniques;
- Additive manufactured surfaces.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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