

Special Issue

Advanced Coatings for Corrosion Protection

Message from the Guest Editor

In recent years, the very traditional field of coatings for corrosion protection has gained a deeper understanding of the mechanisms of protective action and corrosion mechanisms of and under protective coatings. This has also led to a large amount of research in the field of advanced coating systems for corrosion protection.

This situation is the case for all the different types of protective coatings that are typically used. Novel metallic coatings are under development as well as novel pretreatment systems or passivating chemicals that avoid the use of chromates. The rise chemical nanotechnology has fostered the development of hybrid or inorganic sol-gel coatings, as well as nanoparticles and nanocapsules to be used as fillers in coating systems. Furthermore, today, bio-based substances are increasingly used for organic coatings. Last but not least, new anodizing processes have also been developed in the frame of increased use of light metals for lightweight construction.

It is my pleasure to invite you to submit a manuscript on any of these types of advanced coatings for corrosion protection for this Special Issue.

Guest Editor

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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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