



Advanced Coatings for Corrosion Protection

Guest Editor:

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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.





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Message from the Editor-in-Chief

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