

Theoretical and Experimental Assessments of Corrosion Inhibitors

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to consolidate recent findings related to corrosion and the deterioration of materials, and to give the opportunity to researchers to publish their latest results to understand or solve the corrosion problems of materials using corrosion inhibitors complemented by theoretical approaches to explain the mechanism of inhibition. We invite the submission of high-quality original papers and critical reviews.

Potential topics include, but are not limited to, the following areas:

- Corrosion fundamentals;
- Corrosion inhibition;
- Temperature effect;
- Adsorption isotherms;
- Surface characterization (SEM, EDX, AFM, etc.);
- DFT calculation;
- Monte Carlo simulation;
- Molecular dynamics simulation.

I look forward to receiving your contributions.



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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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