



Advanced Coatings for Metals

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Message from the Guest Editors

Coatings on materials are typically developed to improve their surface or interface properties under the service environment. Coatings could prolong the lifetime of metals in various applications by serving as physical protection layers or smart layers providing unprecedented functionality and opportunities for metallic substrates.

However, in some specific environments, challenges, still remain to improve the corrosion resistance of materials and the controllability of biomaterials. Therefore, it is highly desirable to design and develop novel coatings with high environmental compatibility, low cost, and long-term durability towards excellent performance according to their application background. Towards this goal, we are assembling the Special Issue to encourage researchers to publish original articles, reviews, and short communication in this field. The topics of interest for this Special Issue include (but are not restricted to):

- Novel coating design;
- Corrosion/degradation mechanisms of metallic materials;
- Novel eco-friendly coatings;
- Surface treatment and functionality;
- Bioactive coatings for metallic biomaterials.





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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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