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Corrosion/Wear Mechanisms and Protective Methods

Guest Editor:

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Deadline for manuscript submissions:
closed (25 December 2024)

Message from the Guest Editor

During the utilization of materials, their service life is often reduced due to factors such as oxidation, wear, corrosion, and erosion in different service environments. Corrosion and wear pose significant challenges across a wide range of industries, including manufacturing, metallurgy, marine engineering, aerospace, energy, automotive engineering, and more. This Special Issue aims to provide an inclusive platform for academia to share their innovative approaches, theoretical insights, and experimental findings in the areas of corrosion, wear, erosion and wear corrosion protection. We welcome original research papers from scholars and researchers spanning various disciplines relevant to corrosion and wear mechanisms. Research areas of interest include, but are not limited to:

- Analysis of corrosion and wear mechanisms
- Techniques for assessing corrosion and wear
- Monitoring and control strategies for corrosion and wear
- Protective coatings for corrosion and wear resistance
- Surface treatments aimed at enhancing material protection
- Exploration of novel protective materials and coatings

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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