



Investigation on Structure and Corrosion Resistance of Steels/Alloys

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Deadline for manuscript submissions:

closed (31 July 2024)

Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to submit your research to this Special Issue, “Investigation on Structure and Corrosion Resistance of Steels/Alloys”.

Alloys/Steels have numerous engineering applications in nuclear power plants, oil, chemicals, petrochemicals, and marine industries. Mechanical and corrosion properties constitute the two most important properties when working with alloys/steels; these properties are directly affected by microstructures. Thus, research on microstructures and improving alloy/steel mechanical and corrosion properties is vital to develop advanced alloys/steels.

The submission of original research articles and reviews is welcome. Research areas may include (but are not limited to) the following:

- Localized corrosion of stainless steels;
- Corrosion mechanism of ultra-high-strength steels;
- Advanced corrosion-resistant coating of steels;
- Structures of ultra-high-strength steels;
- Mechanical properties and corrosion resistance of high-strength stainless steels.

We look forward to receiving your contributions.

Dr. Hongwei Liu

Prof. Dr. Yongqiang Wang

Guest Editors





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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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