

## Special Issue

# Corrosion Mechanisms and Protection Technologies of Metallic Materials Under Harsh Environments

### Message from the Guest Editors

Corrosion in harsh environments—from deep-sea and oil and gas fields to high-temperature and chemically aggressive settings—poses a significant threat to engineering safety and technological progress. This special issue, “Corrosion Mechanisms and Protection Technologies of Metallic Materials under Harsh Environments,” is dedicated to presenting cutting-edge research that addresses these severe challenges. We invite original contributions that explore fundamental corrosion mechanisms in extreme conditions and the development of advanced protection strategies. Key topics include, but are not limited to:

- Corrosion mechanisms in deep-sea, marine atmospheric, oil and gas, and high-temperature environments.
- The synthesis, design, and application of novel corrosion inhibitors.
- The design, preparation, and performance evaluation of innovative protective coatings.

By compiling high-quality research, this issue aims to provide new ideas and solutions while creating a platform for scholars to share latest advancements. We welcome the submission of original research papers and review articles.

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### Guest Editors

Dr. Baojun Dong

Dr. Tianyi Zhang

Prof. Dr. Dezhi Zeng

Prof. Dr. Yuxin Zhang

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### Deadline for manuscript submissions

31 May 2026



## Molecules

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## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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