

## Special Issue

# Applied Infrastructure Corrosion Science for Construction Practice Advancement

### Message from the Guest Editors

Corrosion is a significant issue affecting the remaining service life of existing structures and the potential service life of new structures. Decisions made during the design and construction of infrastructure can have long-term effects on the extent and rate of corrosion, affecting remaining service life. Such decisions are, in most cases, based on guidance given in national design and construction codes of practice. These codes are based on conventional established principles and findings, empirical data, and inputs from committees of experts and stakeholders. There is typically a lag between the guidance given in these codes of practice and the current state of the art, as documented in the academic literature. A similar scenario exists for guidelines used to assess existing structures. New research offers an improved understanding of long-term corrosion and any influencing factors, which is of interest to owners and managers of existing and potential new infrastructure. This Special Issue aims to bridge the gap between state-of-the-art corrosion research and current codes of practice and assessment guidelines.

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### Guest Editors

Dr. Igor Chaves

Dr. Robert B. Petersen

Prof. Dr. Robert Melchers

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### Deadline for manuscript submissions

31 December 2025



## Corrosion and Materials Degradation

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### Message from the Editor-in-Chief

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#### Editor-in-Chief

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