Special Issue

Corrosion and Durability of Building Materials

Message from the Guest Editors

The aging infrastructure in the US and abroad has resulted in growing concern for corrosion-related failures such as the recent structural collapses and closures of highway bridges, residential buildings, and other vital systems. Tackling the challenge involves research in a diverse range of topics including corrosion mechanisms; resilient and sustainable materials; effective and robust construction; effective mitigation and repair; structural health monitoring and damage detection. This Special Issue is encouraged to submit papers addressing topics including, but not limited to, the following:

- Forensic evaluations of corrosion failures;
- Challenges of assessing corrosion mechanisms and corrosion detection in the field;
- Long-term corrosion durability of construction materials;
- Novel construction materials for corrosion mitigation;
- Corrosion risk or corrosion mitigation associated with construction;
- Effective use or deficiencies of non-destructive testing and structural health monitoring;
- Novel NDT and NDE for corrosion.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2023)

Buildings

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CiteScore 4.4

mdpi.com/si/162093

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).