

Special Issue

Research on Corrosion Resistance of Reinforced Concrete

Message from the Guest Editors

In this Special Issue, we welcome submissions of original research, case studies, reviews, and state-of-the-art discussions that focus on the corrosion resistance of reinforced concrete. This Special Issue aims to extend the durability of reinforced concrete structures, reduce maintenance costs, and ensure the safety and continuity of infrastructure. Some potential key aspects and topics that researchers typically explore in this field include, but are not limited to:

- Corrosion Mechanisms;
- Concrete Mix Design;
- Corrosion Protection Methods: corrosion-inhibiting admixtures, protective coatings, cathodic protection, alternate steel rebar, surface treatments/coating, sustainable and eco-friendly materials;
- Corrosion Monitoring Techniques;
- Environmental Factors;
- Microstructure Analysis;
- Modeling, Simulation and Life Cycle Assessment;
- Case Studies and Durability Assessment;
- Repair and Rehabilitation.

Guest Editors

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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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