Special Issue

Corrosion and Seismic Resistance of Structures

Message from the Guest Editors

The rapid expansion of global infrastructure has highlighted the importance of understanding and mitigating the effects of structural material corrosion and enhancing the seismic resilience of structures against natural disasters. Corrosion, a pervasive issue, not only compromises the mechanical integrity of materials but also leads to premature structural failure. Earthquakes, being unpredictable and devastating natural events, necessitate stringent seismic design criteria for buildings and infrastructure. This Special Issue will synthesize the latest research from the fields of corrosion science, materials engineering, structural design, and earthquake engineering. It will explore the complex interplay between corrosion and seismic resistance, shedding light on their combined impact on structural integrity. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/F7K41IF080

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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.

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