

Corrosion Performance Analysis of Steel–Concrete Composite Structures and Materials

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Message from the Guest Editor

The corrosion performance analysis of steel-concrete composite structures is a vital topic for investigation and has ample scope for future research. However, past research has not been able to find an ultimate solution to this problem.

This Special Issue focuses on investigating corrosion for steel-reinforced concrete from a macro to nano-scale, including modeling, experimentation, corrosion processes, mechanisms, the theories involved therein, and methods and materials. All the variables associated with an environmental, material and loading stressors perspective will be considered. The outcome will be a better understanding of corrosion phenomena in concrete structures, corrosion protection and maintenance, and the development of new methods and materials for sustainable rust-proof steel-reinforced concrete infrastructure. Original articles that fit the field of study in this Special Issue are welcome.

For further reading, please follow the link to the Special Issue Website at:

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Special Issue

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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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