



Study on the Durability of Construction Materials and Structures

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Message from the Guest Editor

The durability of construction materials and structures plays a vital role in the sustainability and resilience of our built environment. As the demand for infrastructure grows in tandem with increasing global population and urbanization, the challenge of constructing long-lasting sustainable structures becomes paramount. The lifespan of a building, bridge, or any infrastructure largely depends on the durability of the materials used and the design and construction methods employed. Failure to address these aspects can lead to premature deterioration, posing safety risks, economic burdens, and negative environmental impacts.

In this Special Issue, authors are invited to submit high-quality original papers presenting new research developments, case studies, projects in progress, and review studies related to the durability of construction materials and structures. Papers may cover topics related to new durable materials, degradation mechanisms, the role of design and construction practices, and innovative/sustainable approaches to enhance durability.





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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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