Special Issue

Durability of Concrete Infrastructure

Message from the Guest Editors

The principal objectives of this Special Issue are:

- To collect the knowledge on the recent developments in various types of cementitious materials that have superior corrosion resistance to equivalent steel-reinforced mortar and concrete under mechanical and chemical loads.
- To embrace the different durability measurement techniques such as new testing methods and modelling that have been developed by researchers.

This Special Issue aims to collect relevant research papers or reviews reporting significant progress in the assessment and comprehension of concrete corrosion and degradation phenomena, in the presence of constant and variable loads. Topics of interest are related to the properties and resistance of cementitious composites in aggressive environments, based on:

- Chloride- and carbonation-induced corrosion of rebars;
- Corrosion inhibitors;
- Cracking;
- Alkali-silica reaction;
- Freezing and thawing;
- Chemical attack;
- Concrete degradation modelling;
- Corrosion in fiber-reinforced cementitious materials;
- Nanoparticles-based coating/mortar for corrosion protection.

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Deadline for manuscript submissions

closed (30 November 2021)

Infrastructures

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 6.0

mdpi.com/si/45259

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