Special Issue

FRP Reinforced Concrete Composites

Message from the Guest Editor

Recently, fiber-reinforced polymer (FRP) materials have been widely applied to concrete structures due to their high strength, light weight, and corrosion resistance. FRP materials have been applied to reinforcement for concrete structures in various formats, such as sheet, plate, bar, and prestressed bar and is used to strengthen reinforced concrete and prestressed concrete structures. The goal of this Special Issue is to disseminate original research and review studies that address (experimental or theoretical) advances, trends, challenges, and future perspectives regarding the development, characterization, and application of FRP to concrete structures. The topics proposed for this Special Issue include, but are not limited to, the following:

- Strengthening of concrete structures using FRP materials;
- Bonding between FRP and concrete;
- Surface treatment of FRP rebar;
- Near-surface mounted (NSM) strengthening using FRP bars;
- Prestressed CFRP reinforcing system;
- Failure mechanism of FRP strengthened concrete structures;
- Multifunctional application (sensing, heating, curing, etc.);
- Innovative applications for the construction industry.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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