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Advanced Fiber-Reinforced Concrete Composites

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Message from the Guest Editor

Dear Colleagues,

Fiber-reinforced concrete is recognized as a high-performance construction material because of its high toughness levels under compressive and tensile loads. Therefore, it is widely used in high-rise buildings, tunnels, bridges, and pre-cast structures. Societal demands have increased the need for advanced fiber-reinforced concrete composites with ultra-high performance or multifunctionality, such as self-healing, self-sensing, self-cleaning, and self-regulating.

This Special Issue focuses on the emerging concepts that allow the design of new or improved fiber-reinforced concrete composites, as well as on the characterization of the properties of advanced fiber-reinforced concrete composites.

Potential topics include, but are not limited to:

- Advanced and multifunctional fiber-reinforced concrete composites
- Ultra-high-performance fiber-reinforced concretes
- Advanced fiber-reinforced cement-free composites
- Nano-fiber-reinforced concrete composites
- Characterization of properties
- Strain-hardening behavior
- Multiple microcracks
- Fiber-bridging behavior
- Structural application of advanced fiber-reinforced concrete composites





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Editor-in-Chief

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Message from the Editor-in-Chief

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