



Emerging Materials and Structures Achieving High-Performance, Low-Carbon and Sustainable Development

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Message from the Guest Editors

The shortage of raw construction materials, high carbon emissions in the cement industry and the huge maintenance cost of existing structures are critical obstructions hindering the sustainable development of concrete infrastructures. Due to the innovative efforts undertaken by the research community, satisfactory achievements have been reached in terms of advanced materials, featured structures as well as retrofitting materials and technologies. The application of high-performance, low-carbon and recycled construction materials, together with innovative structure systems, is a trend facing the above-stated challenges. This Special Issue plans to provide a platform for the overview of the state-of-the-art in this research field. Topics of interest include (but are not limited to):

- Low-carbon cementitious materials;
- Concrete with recycled solid wastes;
- Recycled fiber-reinforced concrete;
- Innovative FRP strengthening and retrofitting;
- FRP bar concrete structures considering ductility demand;
- High-performance structure system and theory;
- Ultra-high-performance concrete.





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Message from the Editor-in-Chief

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