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Smart Concrete for Sustainable Future

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Message from the Guest Editor

The last few decades of intensive research and development, not only in academia but also in the construction industry, have enabled the production of self-compacting, high and ultra-high strength concretes. The carbon footprint has been decreased and the durability improved. More recently, new and previously technically impossible properties and capabilities were introduced. For example, the application of nanotechnology enabled concrete to become a truly smart material, which is able to self-heal, self-monitor, or to harvest energy originating from vibrations, movements or temperature variations. Combinations with 3D printing opened new horizons for future production technologies. The development of smart concrete is still mostly in the research stage. However, it is rapidly advancing with an increasing interest from the construction industry to take it to full-scale applications.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers and reviews are all welcome.



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Special Issue



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Message from the Editor-in-Chief

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