Special Issue

Smart Concrete for Sustainable Future

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.

Guest Editor

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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