Special Issue

Application of Nanotechnology in Building Composites

Message from the Guest Editor

The development of nanotechnologies in recent years has influenced the sphere of building materials on a large scale. Advances have been made in the use of nanomaterials in fresh blends to change their viscosity and processability. Nanoparticles serve as reinforcements, densifiers, or hydration modifiers in the microstructure of composites and work to improve the resulting elastic, strength, fracture, thermal, or electrical properties of the composites. Nanomaterials are used as corrosion inhibitors and coatings. Active surfaces (self-cleaning, hydrophobic, or icephobic) were prepared by applying nanomaterials to building materials.

The Special Issue will gather contributions that describe new approaches and the latest achievements and advances in the application of nanotechnologies, advances in the characterization of material nanolevel, or nanomodifications of building materials. Bulk, surface, fresh mixture, or hardened state applications are of interest. The Special Issue welcomes research articles and reviews on relevant topics.

Guest Editor

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Message from the Editor-in-Chief

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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