Special Issue

Bioinspired Approaches to Produce and Repair Greener Concrete

Message from the Guest Editors

Sustainable construction is one of the main strategies to ensure that the limited resources of the planet can support the growing population in the future, and in view of the fact that concrete is the most widely used substance on Earth after water, along with consideration of its large carbon footprint, a solution that would guarantee greener concrete manufacture and maintenance seems vital. Bioinspired technologies can serve to improve the production of construction material (concrete, mortar, and others) by replacement of less ecological compounds or the enhancement of durability properties, and to extend the service life of construction elements by using biological agents able to repair them. The aim of this Special Issue is to publish innovative and original studies and developments in this field.

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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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