Special Issue

Advances in Functional Cement and Concrete Materials

Message from the Guest Editor

Dear colleagues, Concrete and cementitious materials are common construction materials that are widely used all over the world. On the other hand, research and development activities of concrete as innovative functional materials have been actively conducted in recent years. For example, self-healing concrete is one of the most important topics in the field. Digital fabrication technologies for concrete, such as 3D printing, are another example. Other noteworthy research projects include fiber-reinforced concrete, concrete with sensing functions, concrete with thermal insulation and thermal storage functions, concrete for carbon storage, and so on. To realize novel functional concrete, it is not only necessary to achieve the mixing of new admixtures but also to apply nanotechnology and additional devices. These new concrete materials have great potential for sustainable development. In this Special Issue, we would like to highlight and discuss functional construction materials and their new possibilities.

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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