



materials



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Material Modifications of High Performance Concrete Properties

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Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

The purpose of this Special Issue is to present the latest concepts and research focused on developing the properties of fresh and hardened high performance concrete through material modifications. Of particular interest are articles focused on flexible modifications of concrete properties depending on the conditions of its casting and application, taking into account the implementation of sustainable development postulates.

For example, the research presented in this issue may cover the following topics: modification of the rheological properties of fresh concrete including self-compacting concrete, modification of the properties of fresh and hardened concrete for casting in special conditions (e.g., casting in summer or winter conditions, mass concrete casting), reduction of hazards resulting from thermal stress and shrinkage of concrete, improvement of concrete structure and its resistance to the corrosive effects of the environment, effects of mineral admixtures and additives, recycled materials, fiber-reinforced concrete, green concrete, etc.



mdpi.com/si/33827

Special Issue



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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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