Special Issue

Recent Developments on High-Performance Fiber-Reinforced Concrete: Hybrid Mixes and Combinations with Other Materials

Message from the Guest Editor

The use of high- and ultra-high performance fiber-reinforced concretes (HPFRC and UHPFRC, respectively) has increased significantly in recent years as a result of large research efforts and collaboration between research and industry. Among the most recent developments aiming at an optimization of the material possibilities, researchers have tried to combine different fiber types within the cementitious mix, including fibers with different geometries (straight, deformed, twisted, etc.) or materials (steel, polymer, synthetic, etc.). New advances regarding the aggregates, cement or additives have favored the development of engineered composites. Special mixes have been developed to perform satisfactorily under severe load conditions and environments such as fatigue, impact, or corrosion. In addition, HPFRC and UHPFRC have been combined with other materials (such as conventional concrete, steel, FRP, etc.) to form composite members or strengthen and retrofit existing structures. For more information, please click the following link:
https://www.mdpi.com/journal/materials/special_issues/high_performance_fiber_reinforced_concrete

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Deadline for manuscript submissions

closed (20 March 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

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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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