



an Open Access Journal by MDPI

Ultra High Performance Concrete (UHPC): Current and Future Research

Guest Editor:

Dr. Atorod Azizinamini

Department of Civil and Environmental Engineering, College of Engineering and Computing, Florida International University, Miami, FL, USA

Deadline for manuscript submissions: closed (10 August 2023)

Message from the Guest Editor

Ultra High Performance Concrete (UHPC) is a cementitious material that is providing new horizon in constructed facilities and allowing development of innovative solutions to many structural engineering problems that even few years ago seemed challenging. The durability aspect of UHPC makes it a material of choice where service life design of constructed facilities, such as bridges, takes on a high priority. In recent years, the advancement in the field of UHPC has progressed in many fronts. The unit cost of UHPC is being reduced, mainly because of development of Non-Proprietary UHPC. This trend will continue. Development of Non-Proprietary UHPC, now makes UHPC, more than ever a material of choice. Application of UHPC has varied greatly, from non-structural applications, such as cladding in high rise building to connections for prefabricated bridge elements. High Compressive strength, high tensile strength, significant post cracking ductility and excellent bond characteristic of UHPC, allows using UHPC strategically and develop completed structures that are economical and long lasting. Additive manufacturing or 3-D printing is a new frontier for application of UHPC.



mdpi.com/si/85431







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi