



Advanced Materials and Techniques for Reinforced Concrete

Guest Editor:

Dr. George Wardeh

CY Cergy-paris University, 5 Mail
Gay Lussac-Neuville sur Oise,
95031 Cergy Pontoise, CEDEX,
France

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editor

Infrastructure, the massive worldwide network of structures such as buildings, roads, and bridges, must meet both the social and economic demands of people. The current state of these infrastructures is concerning since many of them show clear evidence of severe deterioration.

Retrofitting or strengthening treatments are necessary due to the multiple potential causes, which include material aging, corrosion, increased vehicle traffic, poor design, construction errors, or even a combination thereof. The benefits of fiber-reinforced polymers have made the repair and reinforcement of different structural components an efficient procedure and sometimes essential solution, particularly for damaged reinforced concrete beams that need to provide enough resistance and simplicity of maintenance.

This Special Issue aims to provide a base for the most recent research and findings on creative methods for strengthening and retrofitting reinforced concrete structures with new eco-friendly and sustainable materials.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. 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 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.

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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)