Special Issue

Repair and Strengthening of Existing Reinforced Concrete Structures

Message from the Guest Editor

Strengthening of existing structures is an urgent need worldwide and especially in earthquake prone areas. Recent earthquakes have highlighted the deficiency of existing structures, which may be either damaged from previous strong earthquakes or have been designed without code provisions or designed to old obsolete code provisions. In the last few years, there has been an enormous development of novel high performance materials and innovative devices which could be effectively utilised for the protection of the existing structures and for the enhancement of structural resilience. This Special Issue aims to provide an overview of the latest scientific advancements on the development of novel methods towards durable and earthquake resistant Reinforced Concrete (RC) structures. Authors are welcome to submit original contributions in the following two major areas:

- *Repair and Strengthening of RC Elements using Novel Materials*
- *Retrofitting of Structures using Innovative Devices*

Guest Editor

Dr. Andreas Lampropoulos

Assistant Professor, Laboratory of Reinforced Concrete, School of Civil Engineering, National Technical University of Athens, 15772 Athens, Greece

Deadline for manuscript submissions

closed (20 September 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/67391

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

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

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