Special Issue

Advances in Lightweight Aggregate Concrete

Message from the Guest Editor

Lightweight aggregate concrete (LWAC), usually characterized by densities less than 2000 kg/m3 and thermal conductivity coefficients up to 1.0 W/m °C, is a lighter and more energy efficient alternative solution to normal weight concrete. This Special Issue will present some of the latest developments and advances in lightweight aggregate concrete, concerning its technology, production, use, general performance, and new emerging solutions. Original papers dealing with new advances in LWAC are welcome, namely involving manufacture, material properties, mix design, fresh, and hardened behavior of concrete, durability, service life assessment, structural design, testing, modeling, sustainability, repair and maintenance, composite solutions, and new emerging types of LWA and LWAC. The main objective is to present some of the most recent research in the field of LWAC, to foster a better understanding and greater confidence in using LWAC, and highlight the remaining challenges and future perspectives for LWAC

Guest Editor

Prof. Dr. Alexandre Bogas

1. Department of Civil Engineering, Architecture and Georesources, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisboa, Portugal
2. Civil Engineering Research and Innovation for Sustainability (CERIS), University of Lisbon, 1049-001 Lisbon, Portugal

Deadline for manuscript submissions

closed (31 December 2019)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/25208

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)