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

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Deadline for manuscript submissions

closed (31 December 2019)



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Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



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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.

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