

Special Issue

Latest Advancements in the Development of a Sustainable and Carbon-Neutral Concrete and Pavement

Message from the Guest Editors

This Special Issue focuses on novel and fundamental research that paves a way towards developing carbon-neutral and sustainable cement concrete that also encourages the recycling of various waste streams. The potential topics of interest for this Special Issue include, but are not limited to:

- Carbon dioxide curing and mineralization in cement concrete;
- Carbon sequestration from various waste streams in cement concrete;
- Development of zero cement composites;
- Development of cement composites with low carbon footprint;
- Recycling of various waste materials for the replacement of cement and/or aggregates;
- Physicochemical and microstructure studies of blended cement/concrete composites;
- Impact on indoor air quality, fire resistance, thermal insulation, and acoustic properties;
- Long-term mechanical and durability studies.

Guest Editors

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closed (20 February 2022)



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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.

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