Special Issue

The Necessity and Feasibility of Innovative Waste-Derived Sustainable Construction Materials

Message from the Guest Editors

In the modern civilized world, the development of buildings and infrastructures has expanded quickly because of rising population and life demands. Recently, extensive study has been conducted on the use of rice husk ash, sawdust ash/wood ash, bagasse ash, industrial waste, recycled fibers, and construction and demolition waste as cement and concrete components. Sustainable concrete can be produced by partially substituting waste materials with cement or other ingredients in concrete. Utilizing waste materials in concrete is feasible, beneficial, and reasonable for the production of sustainable concrete, which is one of the finest solutions for energy conservation and the sustainable development of infrastructure. This Special Issue's goal is to demonstrate the most recent research on unique and creative civil engineering construction materials derived from waste materials for sustainable infrastructures. The development of Sustainable Concrete Infrastructure using cutting-edge methods is especially encouraged.

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Deadline for manuscript submissions

closed (10 March 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/130781

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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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