Special Issue

Waste to Value – Use of Innovative Green Materials in the Construction of Transportation Infrastructure

Message from the Guest Editors

The construction sector is the most material-consuming industry and is significantly responsible for the depletion of natural resources, such as aggregate and oil mines. Identifying alternative materials to be used in the construction of civil infrastructure is, thus, an important step towards sustainability. Significant research has been undertaken to investigate the applicability of recycled materials in the construction of transport infrastructures, such as roads, embankments and associated structures. However, the provision of further robust evidence to convince authorities and industries for maximising the proportion of wastes/recycled materials in civil construction projects is still required. In this regard, in addition to performance testing, life cycle assessment and social procurement considerations on the use of green materials are key areas of research focus. The aim of this Special Issue is to provide a platform for researchers to share their original research outcomes and to contribute to the outstanding collection of reviews and experimental, numerical and technical studies on green materials in transport infrastructure construction.

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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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