Special Issue

Earth-Based Building Materials

Message from the Guest Editors

Traces of earthen architecture date to 10,000 years ago, and earthen-based building materials are still used in most climates and societies. Without transport and with infinite recycling possibilities, earth is among the building materials which have the lowest environmental impact, and very efficient temperature and moisture regulation properties for indoor living spaces. Earth construction is currently under strong development, likely due to environmental concerns. Earth material is readily available, but widening its use in to contemporary cities urges us to invent constructive technologies which could facilitate a quick use of excavated earth on site. This would drive the construction sector towards a closing material loop and engage the sector transition into circular economy.

The current Special Issue (SI) aims to gather recent developments in the understanding of earth-based building material. The articles presented in this SI will cover various topics, ranging from but not limited to interactions between clay platelets, mechanical behavior of vernacular techniques, development of new processes, structure stability and durability. The SI will also draw future perspectives.

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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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