Special Issue

Stone Building Materials: Characterization, Decay, and Conservation

Message from the Guest Editor

The conservation and management of stone building materials are multifaceted processes requiring studies across many disciplines. Such materials, widely used in any civil construction and monument, are susceptible to decay under the influence of physical, chemical, or biological agents, often acting in synergism. The characterization of stone materials is not only essential for predicting their durability and behavior in service, but also helpful for selecting the most compatible and performing restoration strategy. Within this context, this Special Issue aims to publish original research and review papers, from investigators, in both academia and industry, dealing with recent advances in the study of stone building materials, either natural or artificial. Research based on laboratory tests, field trials, and case studies is welcome. The topics include but are not limited to new methods used to characterize stone materials, the study of mechanisms of decay and synergisms between them, assessment of decay patterns, design and synthesis of innovative protective systems, effectiveness of conservation treatments, and provenance and technology of ancient materials.

Guest Editor

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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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