Special Issue

Advanced Materials in Cultural Heritage Conservation

Message from the Guest Editor

The preservation of cultural heritage relics—including metals, ceramics, stone, textiles, paper, wood, and painted artifacts—faces challenges from environmental degradation, biological damage, and mechanical wear. To address these issues, researchers are developing innovative materials such as the following:
Protective coatings (e.g., nanocomposites and hydrophobic polymers);
Consolidants (e.g., silica-based gels and organic–inorganic hybrids);
Corrosion inhibitors (for metals);
Biocides and antifungal agents (for organic materials);
Sustainable and eco-friendly materials (e.g., bio-based polymers).
This Special Issue aims to showcase cutting-edge advancements in materials science for heritage conservation, emphasizing durability, compatibility, and minimal intervention. We welcome original research, reviews, and case studies on the following:
 Novel materials for preventive and remedial conservation;
 Characterization techniques (e.g., spectroscopy and microscopy);
 Laboratory and field applications;
 AI and computational modeling in material design;
We look forward to your valuable contributions.

Guest Editor

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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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