

Special Issue

Eco-Friendly Materials for Sustainable Buildings

Message from the Guest Editor

The transition toward a sustainable built environment demands innovative materials that not only minimize their environmental impact but also deliver high durability and performance. This Special Issue aims to showcase the latest advances in the development, characterization, and application of green building materials that contribute to energy efficiency, carbon footprint reduction, and long-term resilience. The scope of this Special Issue includes, but is not limited to, the following: Low-carbon and carbon-negative building materials; Recycled and upcycled construction products; Bio-based and renewable material solutions; Materials and systems for passive design and energy efficiency; Thermal, hygric, and mechanical performance of green materials; Durability and service life prediction of building materials; Circular economy strategies in the reuse of construction and demolition waste. We invite researchers, engineers, and industry experts to submit original research papers, reviews, and case studies that contribute to the decarbonization of the construction sector and the widespread adoption of eco-friendly, durable materials.

Guest Editor

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About the Journal

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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