

Special Issue

Recent Advances in Nanotechnology and Composites from the Perspective of Sustainable Materials

Message from the Guest Editors

The scope of this Special Issue includes nanomaterials for construction applications, cementitious composites, microstructure–property relationships, low-carbon and energy-efficient materials, and sustainable composite structures for infrastructure. Contributions addressing green material design, carbon reduction strategies, durability enhancement, and infrastructure maintenance through advanced materials technologies are especially encouraged. Experimental, analytical, and multiscale approaches that link microstructural characteristics to macroscopic performance and environmental impact are welcome.

While substantial literature exists on nanomaterials and composite construction materials, their sustainability implications—such as carbon footprint reduction, resource efficiency, and long-term infrastructure performance—remain insufficiently integrated. This Special Issue aims to bridge this gap by providing a focused platform that connects materials science, civil engineering, and sustainability assessment, thereby offering valuable insights for researchers and practitioners working toward sustainable infrastructure development.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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