

Special Issue

Engineering the Future of Sustainable Construction: Self-Healing and Bio-Based Material Technologies

Message from the Guest Editors

The construction industry is entering a transformative era driven by the urgent need for sustainability, climate resilience, and circularity. Traditional cementitious materials are responsible for significant carbon emissions and environmental degradation. To address this, scientists and engineers are exploring innovative materials and biologically inspired technologies that extend durability, reduce repair needs, and promote self-sufficiency in infrastructure. This Special Issue aims to spotlight the latest advances in self-healing cement-based materials and bio-based construction technologies, particularly those integrating microbial systems, biomineralization, and bio-cementation techniques. By bringing together researchers from civil engineering, microbiology, materials science, and sustainability disciplines, this Issue will promote interdisciplinary innovations that will shape the next generation of green infrastructure. In this Special Issue, original research articles and reviews are welcome.

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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