

## 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

Dr. Olja Šovljanski

Dr. Tiana Milović

Dr. Vesna Bulatović

### Deadline for manuscript submissions

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