

# Special Issue: Innovative Circular Materials and Solutions for Sustainable Buildings and Structures

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## Special Issue Information

The construction industry is undergoing a pivotal transformation, driven by the urgent need to adopt sustainable and circular economy principles in building practices in response to pressing global challenges, including climate change, resource scarcity and environmental degradation. This special issue, *Innovative Circular Materials and Solutions for Sustainable Buildings and Structures*, aims to showcase the latest research, technological advancement that drive resource efficiency, minimize waste, and promote low-carbon building practices.

The focus of this issue is on the development and application of circular materials from both biological and technical cycles, alongside sustainable construction methods, advanced design strategies, and the integration of digital technologies to optimize lifecycle processes. Submissions are particularly encouraged that examine material circularity, addressing design elements and material properties that aim to narrow, slow, and close material loops through intensified use, reuse, and recycling. Equally, we seek contributions that explore process circularity, focusing on the effective management of building lifecycle stages across the entire value chain.

We invite submissions of original research, systematic reviews, case studies, and methodological papers that focus on topics such as the following:

- Innovative circular materials and their performance in buildings and structures
- Advanced techniques for recycling and material recovery in construction
- Circular building systems and construction technologies
- Development of monitoring tools and frameworks for circular economy implementation
- Policy analysis and regulatory frameworks supporting circularity
- Economic, environmental, and social impacts of circular practices in the built environment
- Circular management of the construction value chain

Submissions that explore interdisciplinary approaches, propose new evaluation methodologies, or offer comprehensive insights into policy development are particularly welcome. This special issue aims to bridge the gap between theory and practice, fostering scientific advancements that support the construction sector's transition to a sustainable and circular economy.

### **Manuscript Submission Information**

Manuscripts should be submitted online at [www.dimk.rs](http://www.dimk.rs) by registering and logging into this website. All submissions are peer-reviewed (a single-blind peer review). Accepted papers will be published continuously in the journal (as soon as accepted). Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers).

Please read [Guide for authors](#) before submitting a manuscript. Additionally, please provide information that your manuscript is submitted for the Special Issue: "Innovative Circular Materials and Solutions for Sustainable Buildings and Structures" on the front page of the manuscript.

Manuscripts can be submitted until the deadline **December 1<sup>st</sup> 2025**.

### **Keywords**

- Circular economy
- Sustainable construction methods
- Resource efficiency
- Waste reduction
- Low-carbon buildings
- Recycling and material recovery
- Innovative circular materials
- Holistic design strategies
- Digital tools in construction
- Environmental impact
- Policy frameworks for circular construction
- Economic viability of circular solutions

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