

Special Issue

Circular Systems, Buildings and Processes for a Sustainable Built Environment

Message from the Guest Editors

The construction sector is responsible for over one third of greenhouse gas emissions and a significant amount of resource depletion. It has been estimated that buildings account for more than 30% of raw materials globally, and up to 40% of the total waste sent to landfill. A significant number of international agendas have recently placed emphasis on the integration of energy efficiency with the increasing necessity of mitigating the embodied impact of all construction-related processes in order to comprehensively address the transition towards the concept of climate-neutral cities. The transition to a Circular Economy (CE) is recognized as one of the pivotal strategies in this regard. This Special Issue aims to stimulate a reflection on circularity in architectural design and building process to foster the adoption of innovative and life-cycle-oriented solutions to reduce environmental impacts. Scientific research, practical experiences, and systemic studies are welcomed as contributions to the debate on the urgency of shifting towards circular model adoption, which is key to fully achieving a sustainable dimension for building construction.

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