

## Special Issue

# Recent Advances in Architecture Materials and Structures for Sustainability

### Message from the Guest Editors

The focus of this Special Issue aims to draw attention to recent advances in sustainable architectural materials, methods, and structures that are helping us move toward a green future. Sustainable construction is not a choice anymore, but rather it is a demand of today's and tomorrow's society. Various methods are used to provide better sustainable architecture and engineering applications such as the use of waste materials, recycling materials, 3D printing, and CO<sub>2</sub> sequestration. By focusing on investigations of alternative materials that are more eco-friendly and achieve comparable performances to cement, natural aggregate, etc., the CO<sub>2</sub> emissions from construction can be reduced. Applying sustainability concepts and minimizing buildings' environmental impact during the construction, use, maintenance, and end-of-life phases are topics to be highlighted in this Special Issue. Other forms of analysis, such as life cycle assessment, multicriteria decision-making techniques, and deep learning, are valuable tools for highlighting the value of using alternative materials for sustainable structures.

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### Deadline for manuscript submissions

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