Special Issue

Application of Eco-Friendly Construction Materials in the Buildings Industry

Message from the Guest Editors

In recent years, the engineering world has become significantly focused on the environment, energy consumption, and gas emissions, especially in the field of building construction. Currently, a great number of studies are being conducted to investigate the actual performance and properties of construction materials containing eco-friendly materials, including mechanical and durability properties. These eco-friendly materials include recycled materials, by-products of other manufacturing processes, agricultural waste, and waste materials. Two primary questions regarding the use of eco-friendly products are: • How can using eco-friendly materials in the building construction industry help the environment and reduce global warming?
• How effective is the performance of building construction materials when eco-friendly materials are used?
In this Special Issue, we seek high-quality research study articles (including original research articles, case studies, and review articles), which investigate the challenges our industries will face to properly incorporate eco-friendly construction materials into the building industry.

Guest Editors

Dr. Kaveh Afshinnia
T. Y. Lin International, San Francisco, CA 94104, USA

Dr. Mahmood R. Soltani
Civil Engineering and Construction, Bradley University, Peoria, IL 61625, USA

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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