

Special Issue

Utilization of Natural and Waste Substances as Eco-Friendly Construction Materials

Message from the Guest Editors

This Special Issue on “Utilization of Natural and Waste Substances as Eco-Friendly Construction Materials” seeks to highlight and bring together innovative research, case studies, and technological advances that demonstrate the potential of these materials to foster more sustainable civil construction and meet global environmental challenges. Topics include, but are not limited to, methods and/or applications in the following areas:

- Renewable building materials;
- Development of carbon-negative building materials;
- Incorporation and valorization of agro-industrial waste;
- Production and research on cement, bio cement, and biocomposites;
- Reductions in CO₂ emissions (Life cycle analysis);
- Assessment of the durability of alternative composites (long-term effects);
- Incorporation and valorization of agro-industrial waste;
- Valorization of construction biomaterials (e.g., bamboo, natural fibers, straw, clays, and natural soils);
- Rheological tests on alternative composite matrices;
- Valorization of mining waste in cementitious composites.

Guest Editors

Dr. Artur Spat Ruviaro

Prof. Dr. Laura Silvestro

Dr. Henrique Almeida Santana

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

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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