



Sustainable Design and Construction

Guest Editor:

Dr. Laura Tupėnaitė

Department of Construction
Management and Real Estate,
Faculty of Civil Engineering,
Vilnius Gediminas Technical
University, Sauletekio av. 11, LT-
10223 Vilnius, Lithuania

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Message from the Guest Editor

Dear Colleagues,

The construction industry is vital for the achievement of the Sustainable Development Goals, namely economic growth, social progress, and the effective protection of the environment. The global buildings' sector is growing at unprecedented rates. Over the next 40 years, the world is expected to build 230 billion square meters in new construction—adding the equivalent of Paris to the planet every single week [1]. This rapid growth, however, has negative impacts. According to the “2019 Global Status Report for Buildings and Construction”, the buildings and construction sector accounted for 36% of the final energy use and 39% of the energy and process-related carbon dioxide (CO₂) emissions in 2018, 11% of which resulted from manufacturing building materials and products, such as steel, cement, and glass [2]. Moreover, the construction industry is the largest user of natural resources and produces huge amounts of waste. It contributes to air and water pollution, changes the natural environment, and fosters climate change...

Dr. Laura Tupėnaitė
Guest Editor





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Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
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