



Sustainable Structural Health Monitoring and Piezoresistivity Behavior for Green Synthetic Concrete

Guest Editors:

Dr. Ahmed Salih Mohammed

Dr. Azeez Abdullah Barzinjy

Dr. Samir Mustafa Hamad

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submissions:

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Message from the Guest Editors

Dear Colleagues,

Concrete is the second most used substance in the world after water and is the most widely used building material. The production process for cement produces large volumes of greenhouse gas emissions, leading to a net 8% of global emissions. Other environmental concerns include widespread illegal sand mining, impacts on the surrounding environment such as increased surface runoff or urban heat island effect, and potential public health implications from toxic ingredients.

Electrical resistivity (ER) is an important criterion for evaluating cement-based materials and structural health monitoring since it allows the material to respond to strain or cracks. ER may be utilized to measure corrosion and durability and monitor the status of standard samples over time.

This Special Issue in Sustainability is dedicated to comprehensive reviews and original studies on resource use (e.g., nondestructive tests, piezoelectrical resistivity, and green synthetic nano conductive materials) of cementitious materials and concrete containing less common, non-conventional materials.

We look forward to receiving your contributions.

Guest Editors





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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
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