Special Issue

Microbial Bio-Grouting for Underground Constructions: Emerging Technologies for Sustainable Submarine Engineering

Message from the Guest Editors

With increasing population and civil infrastructure demands worldwide, the availability of suitable soil sites for construction continues to decrease and ground improvement is now an integral part of modern development. Microbial-induced calcite precipitation (MICP) uses naturally occurring bacteria to bind soil particles together through calcium carbonate (CaCO3) precipitation to increase the strength of soil. MICP is a cross-disciplinary subject that includes biological, chemical and geotechnical knowledge. It is closely related to subject areas of sustainability, as MICP has great potential for energy saving and CO2 emission. The aim of the Special Issue is to provide a space for scientists to present their new research findings or advances on MICP, and also a good chance to communicate with each other, in order to promote the development of MICP. **Applications of MICP:**

- Biocementation of sands to enhance bearing capacity and liquefaction resistance
- Sequestration of carbon
- Soil erosion control
- Remediation of soil and groundwater

We look forward to receiving your contributions. and

Guest Editors

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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