

Special Issue

Sustainable Geotechnical Treatment Technology

Message from the Guest Editors

Geotechnical treatment technologies, including ground strengthening, slope protection, and seepage control in soils and rocks, are of special importance for the safety and serviceability of infrastructure systems. However, traditional geotechnical treatment technologies may have adverse impacts such as the generation of waste materials, high energy consumption, high carbon emission, and the deterioration of local environments and ecological systems, among others. In recent years, a range of sustainable solutions have been investigated to mitigate the abovementioned problems. Some typical examples involve the use of wastes as fill materials or soil binders, bacteria- or plant-based soil modification, the application of smart techniques for construction and field monitoring, etc. Substantial advancements have recently been achieved in this area, in both academia and the industrial sector.

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