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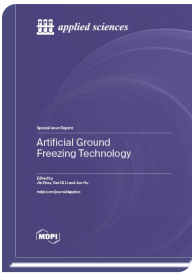
Special Issue Reprint

Artificial Ground Freezing Technology



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Artificial ground freezing (AGF) has emerged as a versatile and sustainable geotechnical engineering technique, offering innovative solutions for ground stabilization, groundwater control, and environmental protection in challenging subsurface conditions. As urbanization and infrastructure demands grow, AGF's role in enabling safe excavations, tunneling, and contaminated site remediation has gained renewed significance. The following Special Issue explores cutting-edge advancements in AGF technology, from numerical modeling and thermal process optimization to case studies highlighting its application in extreme environments. By compiling interdisciplinary research, we aim to address critical challenges—energy efficiency, long-term performance, and climate adaptability—while fostering collaboration between academia and industry to shape the future of frozen ground engineering.

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