



Advances in Ground Source Heat Pumps for Sustainable and Low Carbon Buildings

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Message from the Guest Editors

Dear Colleagues,

The building sector consumes about 30% of total energy, most of which is used for heating or cooling in all types of buildings in different climate zones. By making full use of thermal energy underground and the feature of underground thermal energy storage, the ground source heat pump and its related technologies are continuously contributing toward a cleaner, sustainable, low carbon, and more efficient solution for building energy demand

The original intention of this Special Issue is to explore new systems, materials, models, and applications of technologies related to ground source heat pumps that can serve as novel concepts, new designs and controls, as well as energetic, economic, environmental analyses through experiments or simulations, aiming to further promote the development of ground source heat pump techniques for building energy supply and correspondingly facilitating the goal of carbon neutrality in the building sector.

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