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Hybrid Solar-Ground Source Heat Pump Systems

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Deadline for manuscript
submissions:

closed (15 October 2021)

Message from the Guest Editor

Dear Colleagues,

This Special Issue seeks a collection of high-quality scientific research papers and case studies on hybrid solar ground-source heat pump (GSHP) systems. This multidisciplinary topic has resulted in articles published in a wide range of journals, and a single source of articles would be quite useful to researchers and practitioners alike.

The broad journal audience on this topic has much to do with the wide range of applications of hybrid solar-GSHP systems, from low-to-high temperature use, and from cold to hot climate operation. Further, these systems have several advantages relative to standalone and other types of hybrid GSHP systems in that they use no fossil fuels and can be integrated into other building energy uses. Therefore, this Special Edition seeks to shed more light on the design, performance, and benefits of these systems by welcoming contributions and articles related to: underground solar thermal energy storage; use of solar energy “ground loads” balancing for GSHPs; applications in heating-dominated buildings; integration of hybrid solar GSHP systems with domestic hot water systems, etc.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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