Special Issue

Heat Transfer in Geothermal Energy Applications and Building Energy Systems

Message from the Guest Editors

Dear colleagues, The integration of geothermal energy systems and advanced building energy technologies is pivotal in addressing global energy challenges and advancing sustainable development. Geothermal energy, as a renewable and stable resource, plays a crucial role in decarbonizing heating, cooling, and power generation. Moreover, modern building energy systems are essential for improving energy efficiency, reducing carbon footprints, and enhancing occupant comfort. Recent advancements in materials, heat exchanger design, smart control strategies, and hybrid system integration have significantly improved the performance and applicability of these systems. However, challenges such as optimizing heat transfer and system operation efficiencies, improving the prediction model accuracy, and balancing economic and environmental trade-offs remain areas of active research. This Special Issue seeks to showcase cutting-edge research and innovative solutions in the field of heat transfer applied to geothermal and building energy systems.

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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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