

Special Issue

Advances in Fluid Dynamics and Thermal Transport in Geothermal Energy Systems

Message from the Guest Editor

This Special Issue aims to bring together innovative research that enhances our knowledge of these complex interactions within geothermal systems. By fostering a multidisciplinary approach, we seek to address the current challenges in geothermal energy extraction and contribute to developing more efficient and sustainable technologies. The topics of interest for publication include, but are not limited to: Fundamental mechanisms of fluid flow in geothermal reservoirs; Heat transfer processes, including conduction, convection, and advection; Advanced methods for geothermal reservoir characterization and modeling; Enhancements in geothermal systems (EGSs) through techniques such as hydraulic fracturing, thermal stimulation, and chemical treatments; Environmental impacts and mitigation strategies associated with geothermal energy extraction; Economic analyses and scalability potential of geothermal energy projects.

Guest Editor

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Deadline for manuscript submissions

closed (25 July 2025)



Energies

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Impact Factor 3.2
CiteScore 7.3



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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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