Special Issue

Computational Geothermal Energy Applications

Message from the Guest Editors

This Special Issue includes the presentation of ideas, methods, and results related to computational fluid dynamics and heat transfer in solids, liquids, and gases, with specific geothermal applications, including heat pumps. All modes of heat and mass transfer, such as conduction, convection, diffusion, radiation, and phase change, will be specifically addressed. It will also include discussions on thermodynamic principles, thermal properties of substances, thermal cycles, etc. The themes of shallow geothermal energy applications, deep geothermal energy, groundwater flow, underground tunnels, underground constructions, and thermal stresses are expected to be addressed. More specifically, this Special Issue will report the development of new mathematical methods and computational algorithms and the application of new or existing methods to the solution of problems in the field under study. Experimental studies in combination with numerical/computational works are expected. The assessment of the accuracy of computational solutions through verification and validation is an essential aspect to be dealt with. Review papers on relevant topics are also invited.

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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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