Special Issue

CFD Simulation in Energy Engineering Research

Message from the Guest Editors

This Special Issue aims to present and disseminate recent advancements in CFD simulations applied in energy engineering research. It encompasses a broad range of topics, including advanced CFD modelling techniques used in simulations of various energy engineering technologies and the application of CFD within multi-physical simulations of energy engineering systems. Submissions that utilize artificial intelligence and machine learning in CFD simulations are particularly encouraged. Topics of interest include, but are not limited to:

- Advancements in computational fluid dynamics (CFD) applied to solar, wind, geothermal, hydroelectric, nuclear, combustion and gasification technologies;
- CFD-assisted design, troubleshooting and optimization of heat production, transfer and utilization units;
- Novel algorithms and approaches in CFD simulations applied to energy engineering problems;
- Artificial intelligence and machine learning in CFD applied to energy engineering problems;
- Uncertainty assessment of CFD simulations of energy engineering equipment.

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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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