Special Issue

Thermodynamic Optimization of Energy Systems

Message from the Guest Editor

This Special Issue on Thermodynamic Optimization of Energy Systems explores advanced methods for the design, optimization, and sustainability of energy systems in response to global energy and environmental challenges. Key topics include multi-objective optimization techniques, exergy and pinch analysis, life cycle assessment, and computational modeling for enhancing the efficiency of thermodynamic processes. Research covers biofuel production, hydrogen technology, and the integration of renewables, focusing on energy transitions in agricultural and industrial sectors. Emphasis is placed on innovative thermodynamic cycles, the optimization of energy conversion processes, emission reduction strategies, and resource management, offering critical insights for sustainable energy system design and operation.

Guest Editor

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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