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 multiobjective 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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