Special Issue

Numerical Simulation and Optimization in Thermal Processes

Message from the Guest Editors

Numerical simulation and optimization techniques have revolutionized the field of thermal processes, enabling engineers and researchers to analyze, design, and optimize complex thermal systems efficiently. From computational fluid dynamics (CFD) and finite element analysis (FEA) to multi-objective optimization algorithms and machine-learning-based approaches, researchers are continuously developing innovative methodologies to enhance thermal system performance. By accurately modeling heat transfer, fluid flow, and thermal behavior, engineers can optimize parameters, improve energy efficiency, and ensure safe operation. This Special Issue aims to showcase the latest advancements in numerical simulation and optimization techniques applied to thermal processes. Whether your research focuses on computational fluid dynamics, finite element analysis, multi-objective optimization algorithms, or machine learning-based approaches, we encourage you to share your valuable insights and findings.

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Editor-in-Chief

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