



Industrial Energy and Resource Conservation via Process System Engineering

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Deadline for manuscript submissions:

closed (30 June 2024)

Message from the Guest Editor

Dear Colleagues,

The industrial sector plays a pivotal role in global energy consumption and resource utilization. To address the pressing issues of environmental sustainability and resource scarcity, it is imperative to integrate advanced process system engineering approaches. This Special Issue invites researchers and practitioners to contribute original research, reviews and case studies that focus on innovative methodologies, technologies and strategies aimed at conserving energy and resources in industrial processes.

This Special Issue aims to summarize the latest progress in the methods and applications of process system engineering approaches within the processing industry (chemical, petrochemical, pharmaceutical, bio-process, food and beverage, paper and pulp, environmental processes, etc.) to achieve energy and resource minimization. Topics will include, but are not limited to:

- Process synthesis and analysis;
- Process control and fault diagnosis;
- Process modeling and simulation;
- Process integration;
- Process optimization;
- Planning, scheduling, and supply chain.





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Message from the Editor-in-Chief

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