



Energy Efficiency Assessment and Resource Optimization

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Message from the Guest Editors

With the increase in human social activities, energy efficiency improvement and resource optimization have attracted more and more attention from environment and industrial process research communities, especially in the chemical process, input-output resources, renewable energy, and process industries, etc. Traditional mechanism model analysis and actual production verification methods lead to the disadvantages of difficult energy efficiency evaluation, high complexity, and excessive cost. Through data analysis and artificial intelligence technologies, such as neural networks, principal component analysis, and data computing, energy efficiency can be evaluated based on data-driven methods to achieve resource optimization. It can reduce the unnecessary influence factors in the actual energy efficiency evaluation process of process industries, and can quickly establish an energy efficiency assessment and resource optimization model, which is conducive to the realization of resource protection and emission reduction, and can thus improve the energy efficiency.





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