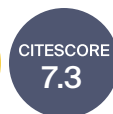




energies



Special Issue Reprint

Advanced Research on Heat Exchangers Networks and Heat Recovery

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This Reprint showcases the latest breakthroughs in the design and optimization of heat exchanger networks and thermal energy systems. It emphasizes innovative strategies aimed at enhancing energy efficiency in industrial processes through modern modeling techniques, thermodynamic evaluations, and retrofitting methods. The contributions include advancements in digital tools for process integration, analyses related to exergy–pinch, and strategies for recovering heat from electrified and decarbonized systems. Several case studies illustrate real-world applications, such as the incorporation of heat pumps, effective waste-heat utilization, and hybrid systems that support the transition to sustainable energy. It provides essential insights for engineers, researchers, and decision-makers focused on minimizing carbon emissions and operational costs while promoting sustainability in thermal energy systems.



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