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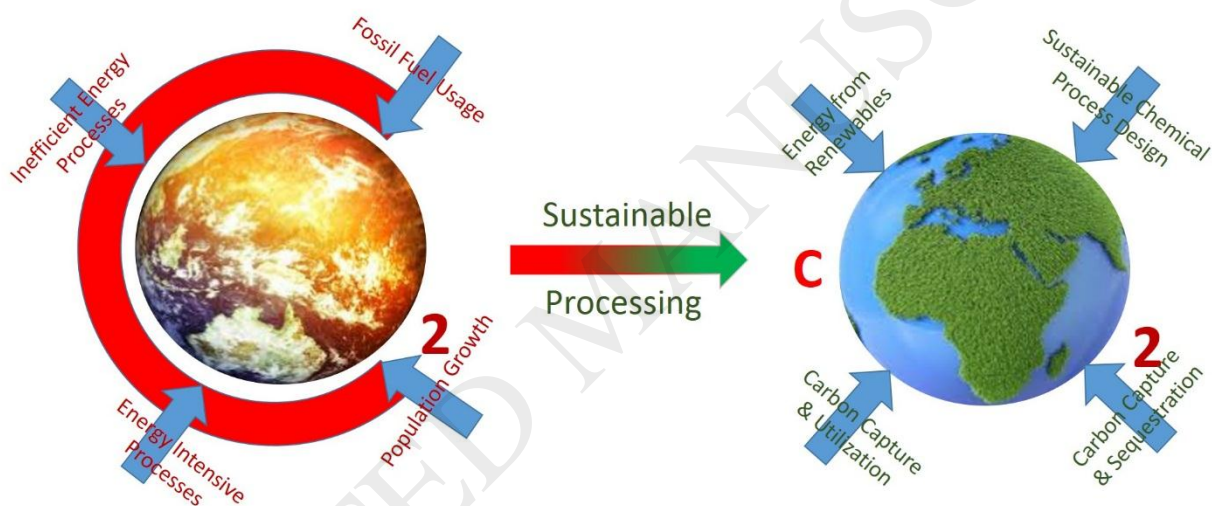
Sustainable chemical processing and energy-carbon dioxide management: review of challenges and opportunities

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Graphical Abstract



Highlights

- Review of global energy scenario – fossil fuels and alternate sources
- CO₂ emissions: Capture and management – Overview
- Sustainable chemical process design – issues and technologies
- Application examples: energy and CO₂ management

Abstract

Energy is the driving force for growth and per-capita energy consumption is a key parameter for the development of a nation. Carbon dioxide emissions from burning of fossil fuels are the main concerns for global warming. This paper presents a brief review of the available energy sources,

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