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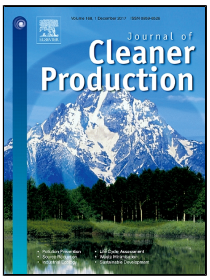

Life-Cycle Modeling Framework for Generating Energy and Greenhouse Gas Emissions Inventory of Emerging Technologies in the Chemical Industry

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Highlights

- We developed a modeling framework to generate LCI for emerging chemical technologies.
- The framework is applied to a case study of ethylene production for demonstration.
- The life-cycle energy and GHG emissions of ethane oxidative dehydrogenation is estimated.
- Monte Carlo simulation is used to quantify the uncertainty.
- Sensitivity analysis is used to identify driving factors of the life-cycle environmental burdens.

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