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### Review

A review of gas separation technologies within emission reduction programs in the iron and steel sector: Current application and development perspectives

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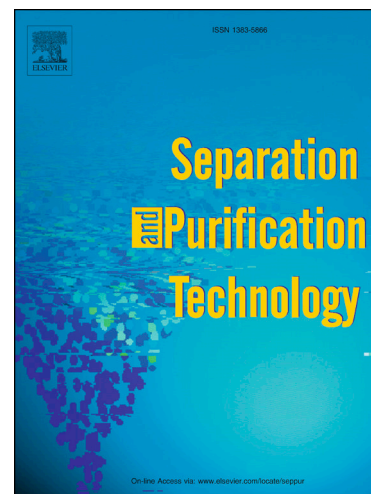
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**Title:** A review of gas separation technologies within emission reduction programs in the iron and steel sector: Current application and development perspectives

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**Abstract:**

Worldwide steel production is still mainly achieved from primary manufacturing by carbon-intensive processes in integrated steel mills, making this industry the first in terms of direct CO<sub>2</sub> emissions. Both carbon capture and storage (CCS) and carbon capture and utilization (CCU) approaches are currently considered to offer a solution to the high carbon-footprint of primary steel production. Design of available or development of new gas separation-purification technologies are at the heart of these strategies, and often represent the largest share of the total

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