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Fossil fuel CO₂ tracing by atmospheric ¹⁴CO₂ measurements in China

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As a large carbon emitter, how much of the increased atmospheric CO₂ derived from fossil fuel emissions is not only an important scientific question, but also important to assess the current policies of carbon peak and carbon neutrality in China. Because of the complete depletion in fossil fuels, radiocarbon (¹⁴C) is regarded as an independent and objective tool to evaluate fossil fuel CO₂ (CO₂ff) emissions. In this presentation, we will show the progresses of tracing CO₂ff emissions by atmospheric ¹⁴CO₂ measurements in China, including the background ¹⁴CO₂ measurements, spatial-temporal distribution of CO₂ff in Chinese cities, and the contributions from different sources, etc.

Student Submission

No

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