



Showcasing research from Professor Y. Chris Li's laboratory, Department of Chemistry, University at Buffalo, USA.

Direct conversion of bicarbonate capture solution into multi-carbon products in a plasma electrochemical system

A plasma-catalytic process is reported to convert bicarbonate molecules into carbon monoxide and carbon dioxide. When paired with a subsequent electrochemical process, this platform enables the conversion of bicarbonate to ethylene with high Faradaic efficiency. This integrated plasma-electrochemical approach simplifies separate carbon capture and conversion steps, offering a more environmentally friendly process.

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As featured in:



See Yuguang C. Li *et al.*, *Green Chem.*, 2026, **28**, 4466.