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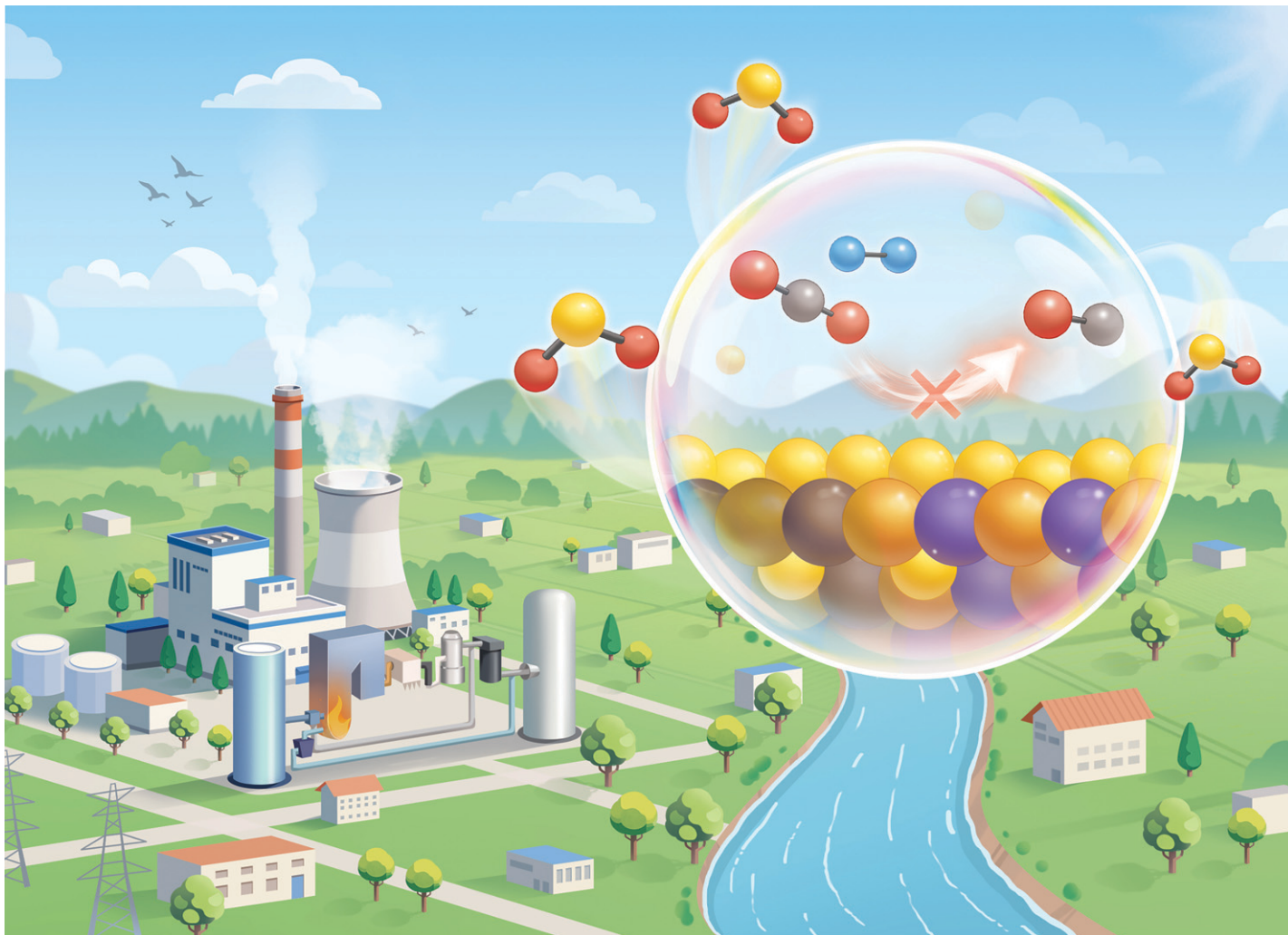
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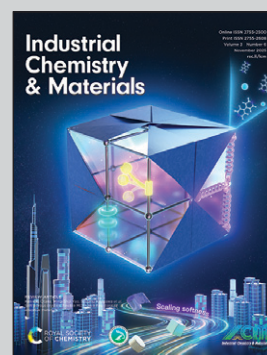
Showcasing research from Hui Zhou's laboratory, Tsinghua University, Beijing, China.

Deactivation mechanisms of Cu-Zn-Al₂O₃ in CO₂ hydrogenation induced by SO₂ exposure

SO₂ in CO₂-rich gases inhibits CO₂ hydrogenation over industrial Cu-ZnO-Al₂O₃, causing irreversible deactivation through surface adsorption of sulfates and sulfites, as well as phase transitions to Cu₂S, CuS, and ZnS.

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See Hui Zhou *et al.*,
Ind. Chem. Mater., 2025, **3**, 710.