

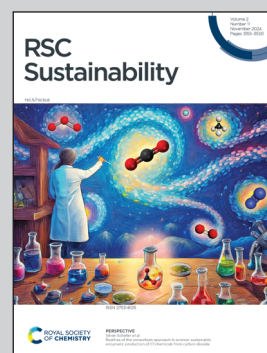


Showcasing research from Professor Günther Rupprechter's laboratory, Institute of Materials Chemistry, TU Wien, Vienna, Austria.

Bimetallic CuPd nanoparticles supported on ZnO or graphene for CO₂ and CO conversion to methane and methanol

Our work investigates the hydrogenation of CO₂ and CO to CH₄ and MeOH to reduce emissions and reliance on fossil fuels. It evaluates Cu, Pd, and CuPd nanoparticles on ZnO or graphene as catalysts under different operating conditions, demonstrating that lower Cu/Pd loadings favor CH₄ production, while higher Cu content boosts MeOH yield, offering valuable insights for sustainable fuel catalyst design.

As featured in:



See Günther Rupprechter *et al.*,
RSC. Sustainability, 2024, 2, 3276.