



Showcasing research from Professor Coville's laboratory,
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The effect of separation distance on hydrogen spillover in
Os promoted Co@HCS catalysts

The distance over which hydrogen can travel in a spillover
effect on a hollow sphere (HCS) carbon support has been
evaluated using temperature reduction profiles. In this study,
Os/(Co@HCS_x) and Co@HCS_x (x = HCS shell thickness;
16 nm, 28 nm, 51 nm) catalysts were studied and hydrogen
spillover for the reduction of the Co by the Os was found to
vary with HCS thickness and Co oxidation state.

As featured in:



See Neil John Coville *et al.*,
Catal. Sci. Technol., 2025, **15**, 334.