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Showcasing research from Professor Graham Hutchings' Laboratory, Cardiff Catalysis Institute, Cardiff University, United Kingdom.

The selective oxidation of methane to methanol using *in situ* generated H₂O₂ over palladium-based bimetallic catalysts

Nanoalloys consisting of Au and Pd, supported on the titanosilicate TS-1, are shown to be highly effective in the selective oxidation of methane to oxygenates. The high performance of these catalytic formulations is attributed to the ability of Au to promote the release of highly reactive oxygen-based radicals from metal surfaces.

As featured in:



See James H. Carter, Richard J. Lewis, Graham J. Hutchings *et al.*, *Catal. Sci. Technol.*, 2023, **13**, 5848.