



Rh
ZrO₂
Fe-Cr-Al

Showcasing research from Masato Machida's Laboratory, Division of Materials Science and Chemistry, Faculty of Advanced Science and Technology, Kumamoto University, Kumamoto, Japan.

Thermal stabilisation effects of Zr buffer layer on nanometric Rh overlayer catalyst formed on metal foil substrate

The thermal stability of a nanometric Rh overlayer formed on a Fe–Cr–Al metal foil was successfully improved by inserting a Zr buffer layer. Despite the harsh thermal ageing at 900 °C, the catalyst showed excellent performance for the simulated three-way catalysis reaction with a high turnover frequency.

As featured in:



See Masato Machida et al.,
Catal. Sci. Technol., 2019, 9, 2111.