



Showcasing research from Professor Tomoo Mizugaki's laboratory, Graduate School of Engineering Science, Osaka University, Japan.

Reductive amination of carboxylic acids under H_2 using a heterogeneous Pt-Mo catalyst

An aluminum oxide-supported Pt-Mo (Pt-Mo/ γ - Al_2O_3) catalyst exhibits high activity for the reductive amination of carboxylic acids even under 0.1 MPa H_2 pressure. Pt-Mo/ γ - Al_2O_3 is reusable and applicable to the reductive amination of biomass-derived fatty acids such as lauric acid, palmitic acid, and stearic acid to provide their corresponding fatty amines in excellent yields. The unique catalysis of Pt-Mo will make a significant contribution to establish a future sustainable process for alkylamine synthesis.

As featured in:



See Tomoo Mizugaki *et al.*,
Green Chem., 2024, **26**, 2571.