Special Issue

Recent Developments in Rh Catalysts

Message from the Guest Editors

Recently, Rh has been receiving considerable attention because of its high catalytic potential for producing hydrogen from hydrogen-containing molecules to power fuel cells. Hydrogenation of CO and CO2 to form hydrocarbons and oxygenated products over supported and unsupported Rh has been the subject of extensive research of Rh and Rh-containing catalysts. Supported Rh catalysts are promising candidates in the thermal and photocatalytic reduction of CO2 with hydrogen and with different saturated and unsaturated hydrocarbons. Rh supported on oxide supports is an excellent catalyst for environmentally important technologies, such as CO oxidation and NOx reduction. This Issue would supply the catalytic community with the present status of Rh-related catalysts exhibited in many catalytic reactions. This volume involves studies relating to the catalytic effects of Rh in a wide reaction scale, the modification of Rh surfaces, and the interaction mechanism between Rh and support, including the strong metal interactions and its importance in the catalytic reactions.

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