

A study on the characteristics of Rh-loaded ceria-zirconia mixed oxides for catalytic reduction of NO with CO

김정량, 임선기*
한국과학기술원
(skihm@kaist.ac.kr*)

Ceria-zirconia mixed oxide is an important component as oxygen storage material for example in the three-way catalysts. Also rhodium plays an important role to improve the reduction property of ceria-zirconia mixed oxide because it can activate the reducing agent, i.e. H₂. Continuous hydrothermal synthesis in supercritical water was used as a new synthesis method to obtain ceria-zirconia mixed oxides with better OSC. In this study, the activity of Rh-loaded ceria-zirconia mixed oxides for catalytic reduction of NO with CO and their characteristics were investigated through physical characterizations with N₂ adsorption, TPR, and O₂-uptake.