

Effect of precursors on NO_x uptake catalyst for lean burn engine

장익준, 신혜선, 신나라, 김수현, 조성준*, 김도희¹
전남대학교; ¹서울대학교
(sjcho@chonnam.ac.kr*)

The influence of various platinum and barium precursors on the catalytic performance of Pt/Ba/Al₂O₃ granule has been studied. The obtained samples were characterized by X-ray diffraction, SEM-EDX, N₂ adsorption-desorption isotherm etc. The NO_x uptake measurement of the samples was carried using in a fixed bed quartz reactor under lean condition, after 20th lean-rich condition cycling. The catalyst prepared from tetraammineplatinum nitrate and barium acetate precursor was found to be the most active for NO_x uptake process.