

The study on metal oxides for improvement of storage performance as NSR catalysts

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The NO_x storage and reduction (NSR) technology is a potential technique to reduce NO_x in lean exhaust. A typical NSR catalyst consists of the following components : precious metals, such as platinum or palladium and rhodium, a storage component, usually barium, and a high surface area support, such as γ -alumina. Moreover, MMO(Mixed Metal Oxide), noble metal free catalyst has been investigated as a candidate for NSR catalyst. In this investigation, we synthesized NSR catalysts with metal oxide except for BaO as a primary component, and analyzed reductive property using H₂-TPR. Synthesized catalysts give us interesting results with improvement of storage performance.