

Selective Nitric Oxide Reduction with Sol-Gel Materials that Highly Resistant to Sintering and Sulfur Dioxide Poisoning

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We report the catalytic activity on catalyst prepared using a sol-gel process as a function of oxygen, water, and sulfur dioxide in the feed for the reduction of NO with ammonia. We also studied the catalytic activities as a function of catalyst preparation method: sol-gel, impregnation and deposition-precipitation. As a result, catalysts prepared by the sol-gel method were found to be the most active catalysts and showed are highly resistant to sintering and sulfur dioxide poisoning.