

## Synthesis of vanadia-doped titanium-pillared clay for the selective catalytic oxidation of H<sub>2</sub>S

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A series of vanadia-doped titanium-pillared clay were prepared by impregnation method and studied for the selective catalytic oxidation of H<sub>2</sub>S using different reaction conditions. It was found that doping with metals in the pillared layered clays improved the activity of pillared clay for the adsorption of H<sub>2</sub>S. Vanadia supported catalysts shows high activity for the selective catalytic oxidation of H<sub>2</sub>S. The conversion of H<sub>2</sub>S was found to be over 95 % at temperature ranging from 220–300° C without considerable emission of SO<sub>2</sub>.