第187回触媒化学研究センター談話会

演　題：Characterization and Reactivity of Supported Vanadium Oxide Catalysts

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日　時：２００５年４月１８日（月）
１５：００―１６：３０

会　場：北海道大学創成科学研究棟
４階　セミナー室　０４-２１５号室

要　旨：This presentation deals with an investigation of various supported vanadium catalysts for their characterization and catalytic properties. A series of vanadia catalysts with varying V_2O_5 loadings ranging from 2-20% were prepared on supports such as TiO_2, Nb_2O_5, Al_2O_3, ZrO_2 and $AlPO_4$. These catalysts were characterized by X-ray diffraction (XRD), temperature programmed reduction (TPR), electron spin resonance (ESR), X-ray photoelectron Spectroscopy (XPS) BET surface area and oxygen chemisorption at 640 K. The catalytic properties are evaluated for vapor phase ammoxidation of 3-picoline to nicotinonitrile. The results are discussed with possible surface vanadia species present on the supports. The catalytic properties during ammoxidation of 3-picoline are related to the oxygen chemisorption sites.

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