

Structure of V-SCR catalysts in action using *Operando* Raman and UV/Vis Spectroscopy

Background:

Vanadium oxide dispersed on high surface anatase titania is a well known catalyst for reducing harmful NO gasses to N_2 through the selective catalytic reduction using ammonia as the reductant. In an ongoing research project we are analysing the anatase surface structure and the coordination of vanadium, ammonia and other SCR relevant species at the catalyst operating conditions.

The Project:

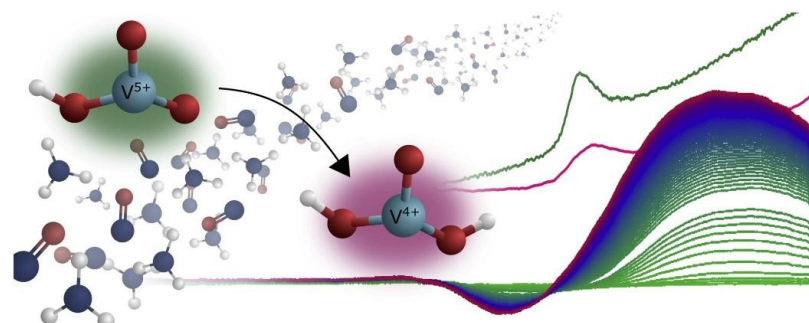
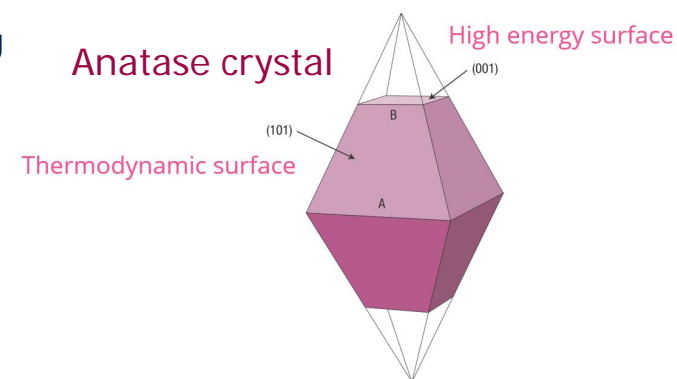
Using *Operando* Raman and UV/Vis spectroscopy to analyse the surface vanadium species dispersed on an anatase carrier at the catalytic working conditions. The analysis will be conducted with varying vanadium load.

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Godiksen and Rasmussen, *Catalysis Today*, 2019 (in press)