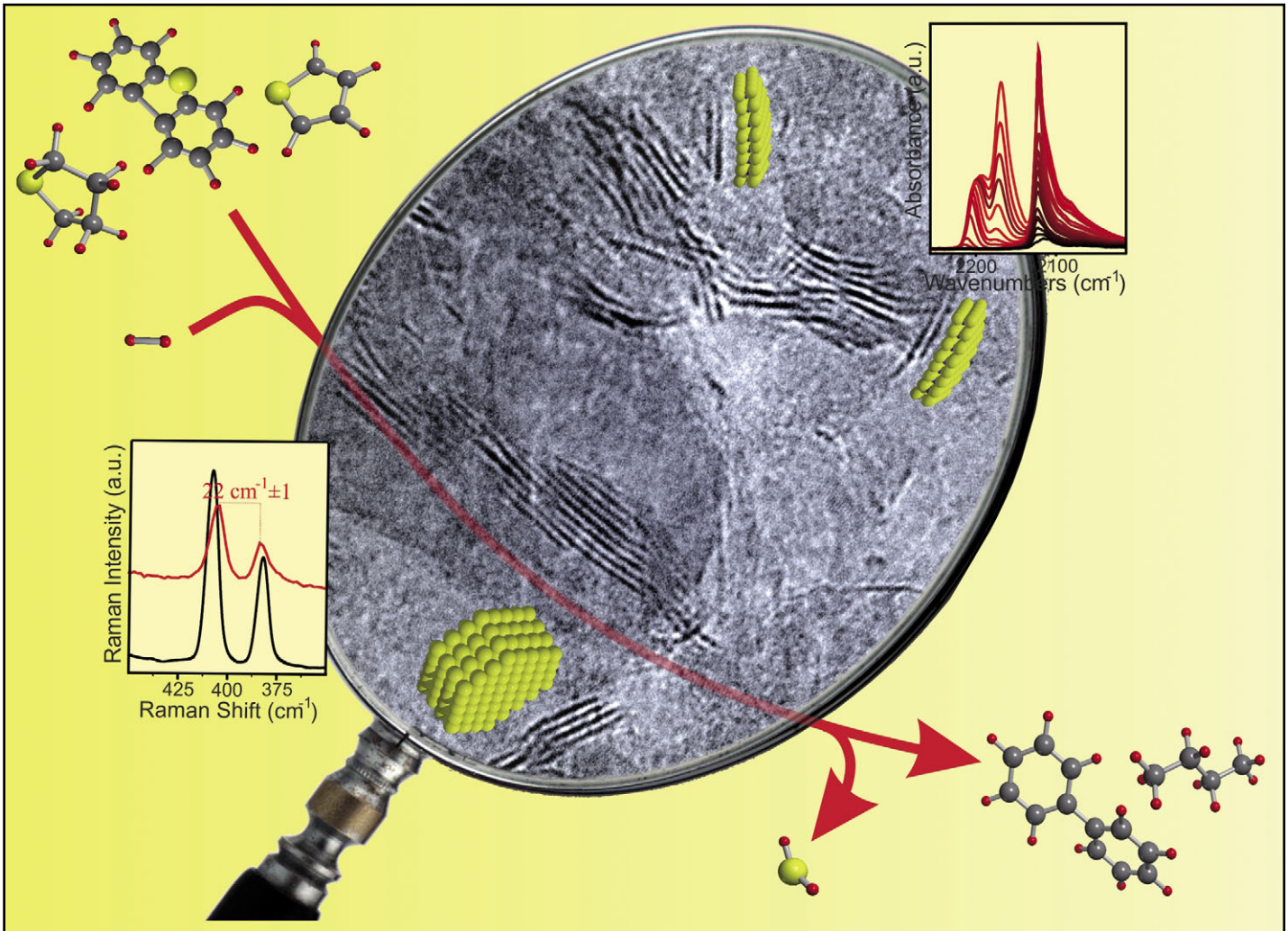

Supported hydrodesulfidation (HDS) MoS_2/SiO_2, MoS_2/γ-Al_2O_3 and MoS_2/MgO catalysts with model character have been synthesized by using CS_2 as sulfiding agent and investigated by means of XRPD, HRTEM, Raman, FTIR and UV-Vis techniques. MoS_2/support interaction grows along the series MoS_2/SiO_2, MoS_2/γ-Al_2O_3 and MoS_2/MgO, while the opposite occurs for particle size and stacking.

Title: Model oxide supported MoS_2 HDS catalysts: structure and surface properties

Showcasing research from NIS Centre (Nanostructured interfaces and surfaces) of the University of Torino and Refining & Marketing Division, Research and Technological Development, ENI Research Center, San Donato Milanese.

As featured in:

See Zecchina *et al.*, *Catal. Sci. Technol.*, 2011, **1**, 123

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