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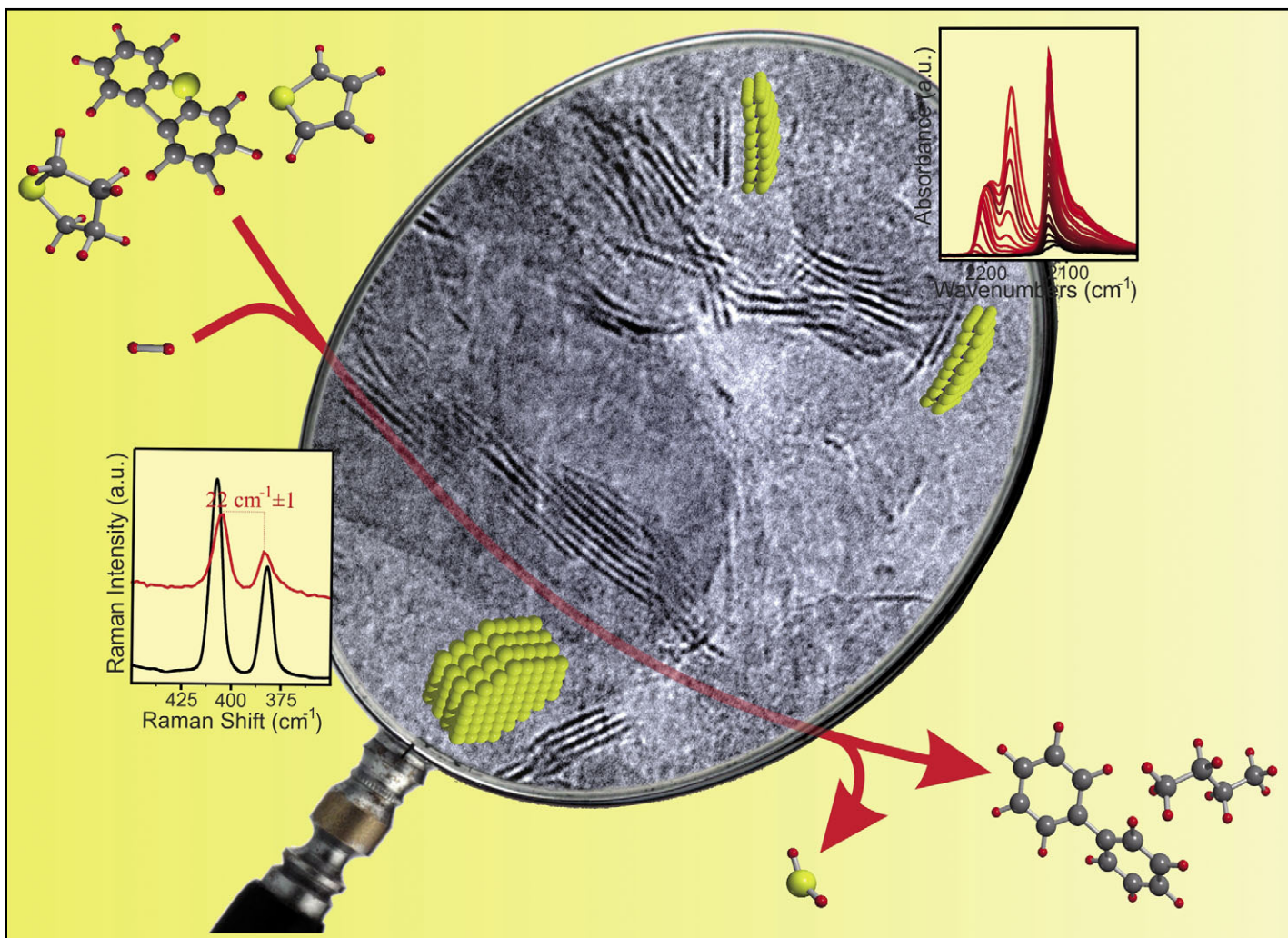


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Supported hydrodesulfidation (HDS)  $\text{MoS}_2/\text{SiO}_2$ ,  $\text{MoS}_2/\gamma\text{-Al}_2\text{O}_3$  and  $\text{MoS}_2/\text{MgO}$  catalysts with model character have been synthesized by using  $\text{CS}_2$  as sulfiding agent and investigated by means of XRPD, HRTEM, Raman, FTIR and UV-Vis techniques.  $\text{MoS}_2$ /support interaction grows along the series  $\text{MoS}_2/\text{SiO}_2$ ,  $\text{MoS}_2/\gamma\text{-Al}_2\text{O}_3$  and  $\text{MoS}_2/\text{MgO}$ , while the opposite occurs for particle size and stacking.

**Title:** Model oxide supported  $\text{MoS}_2$  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:

##### Catalysis Science & Technology



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