Figure S1. XRD patterns for the NiMo catalyst supported on Al_2O_3 -Ti O_2 . * Aluminum oxide γ -Al_2O_3 (JCPDS card 10-0425).



Figure S2. TPR profile for the NiMo catalyst supported on Al₂O₃-TiO₂ as oxidic form.





Figure S3. O K-edge X-ray absorption spectra for the MoO_x references.

Figure S4. O K-edge X-ray absorption spectra for the oxide and reduced supported catalysts, using the same support as the sulfided materials.

