

MCM-41 Supported Co-based Bimetallic Catalysts for Aqueous Phase Transformation of Glucose to Biochemicals

Somayeh Taghavi ¹, Elena Ghedini ¹, Federica Menegazzo ¹, Michela Signoretto ^{1,*} Delia Gazzoli ², Daniela Pietrogiacomì ², Aisha Matayeva ³, Andrea Fasolini ³, Angelo Vaccari ³, Francesco Basile ³ and Giuseppe Fornasari ³

¹ CATMAT Lab, Department of Molecular Sciences and Nanosystems, Ca' Foscari University, Venice and INSTM-RUVE, 155 Via Torino, 30172 Venezia Mestre, Italy; somayeh.taghavi@unive.it (S.T.); gelena@unive.it (E.G.); fmenegaz@unive.it (F.M.);

² Department of Chemistry, Sapienza University of Rome, 5 P.le A.Moro, 00185 Rome, Italy; delia.gazzoli@uniroma1.it (D.G.); daniela.pietrogiacomì@uniroma1.it (D.P.)

³ Department of Industrial Chemistry, University of Bologna, 4 Viale del Risorgimento, 40136 Bologna, Italy; aisha.matayeva2@unibo.it (A.M.); andrea.fasolini2@unibo.it (A.F.); angelo.vaccari@unibo.it (A.V.); f.basile@unibo.it (F.B.); giuseppe.fornasari@unibo.it (G.F.)

* Correspondence: miky@unive.it

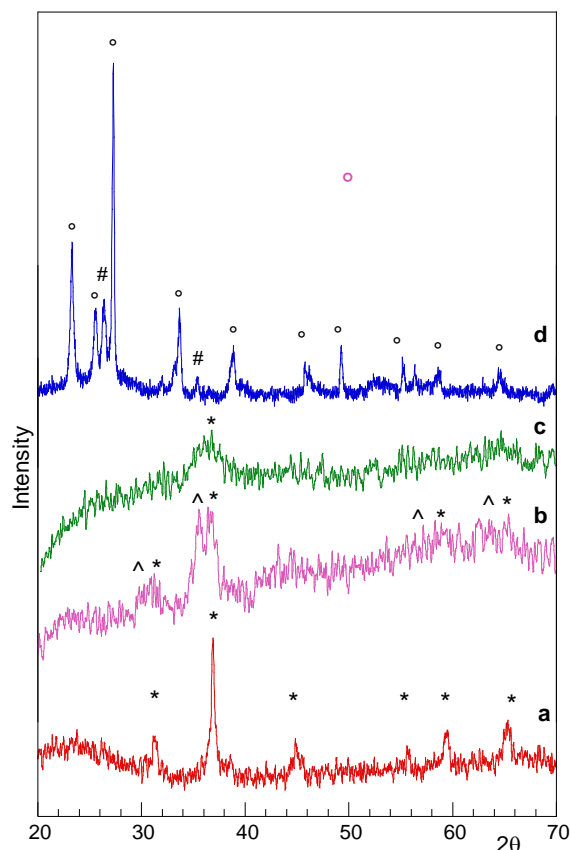


Figure 1. XRD patterns of the 20CoSiO₂ (a), 10Fe10CoSiO₂ (b) 10Mn10CoSiO₂ (c) and 10Mo10CoSiO₂ (d) samples. *Co₃O₄; ^Fe₃O₄; MoO₃; CoMoO₄.

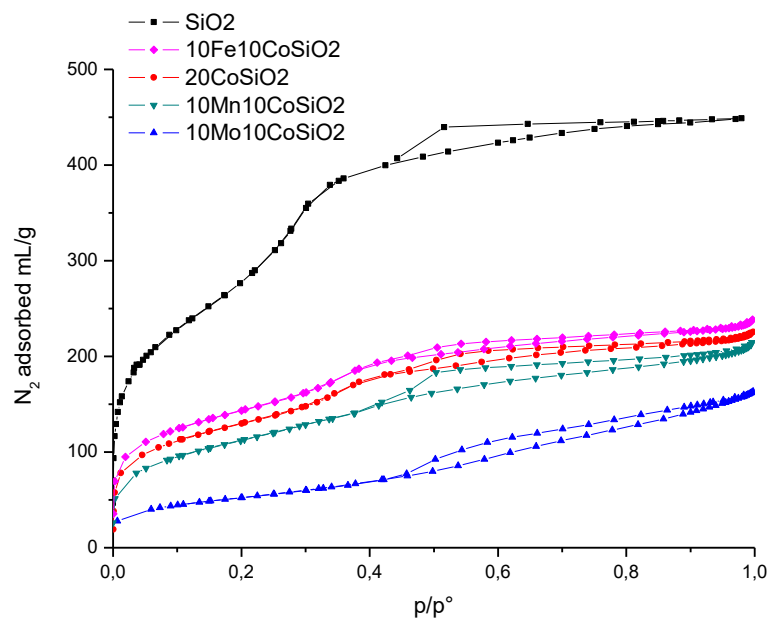


Figure 2. N₂ adsorption/desorption isotherms of catalysts and pristine support. Notation: SiO₂(black ■), 10Mo10CoSiO₂ (blue ▲), 20CoSiO₂ (red ●), 10Fe10CoSiO₂ (magenta ◆), 10Mn10CoSiO₂ (green ▼).