Novel Ni/Zn MOFs for Sorbitol Production via Catalytic Transfer Hydrogenation

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Supplementary information

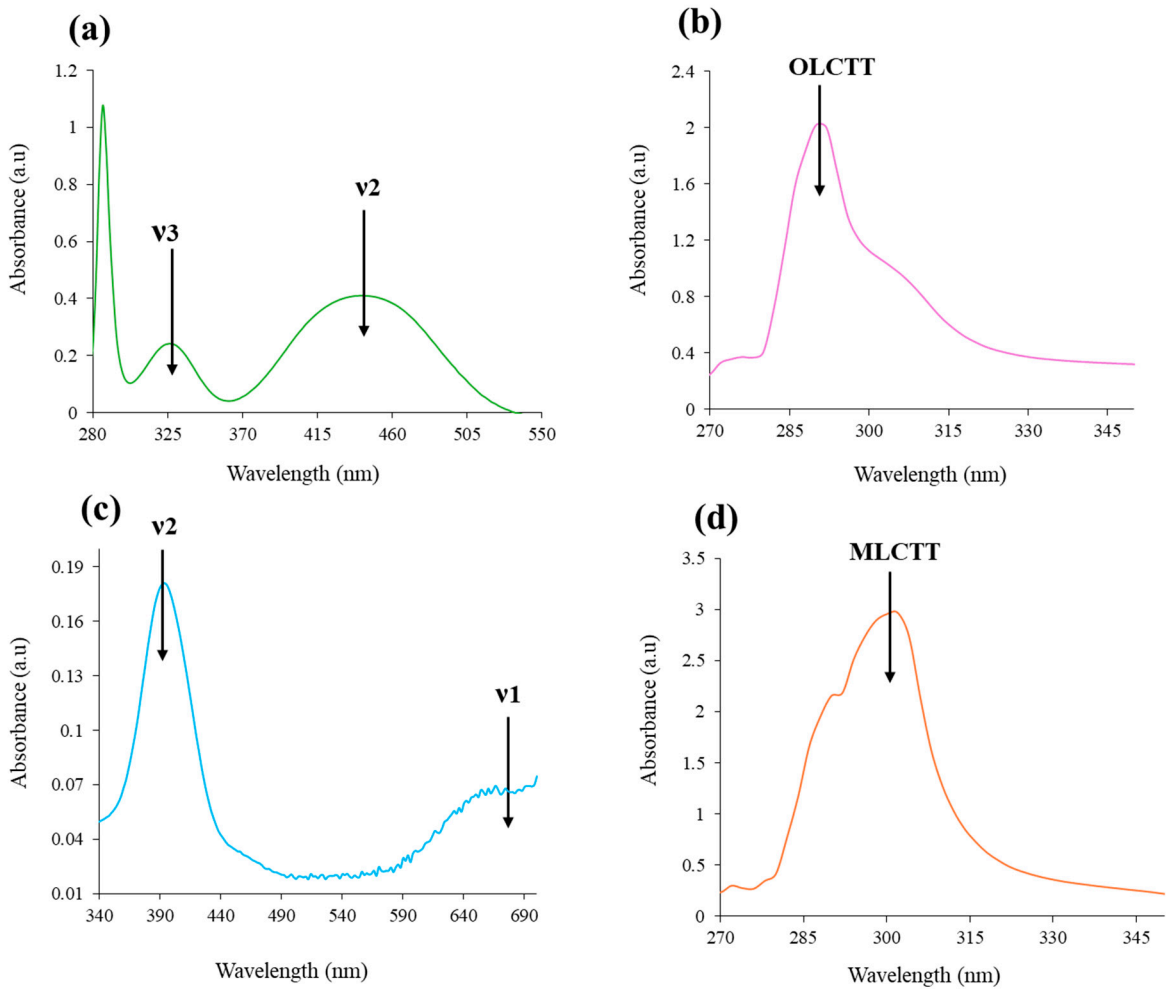


Figure S1: UV-Vis spectra of (a) $NiSO_4.6H_2O$, (b) $Zn(aca)_2$, (c) Ni MOF and (d) Zn MOF

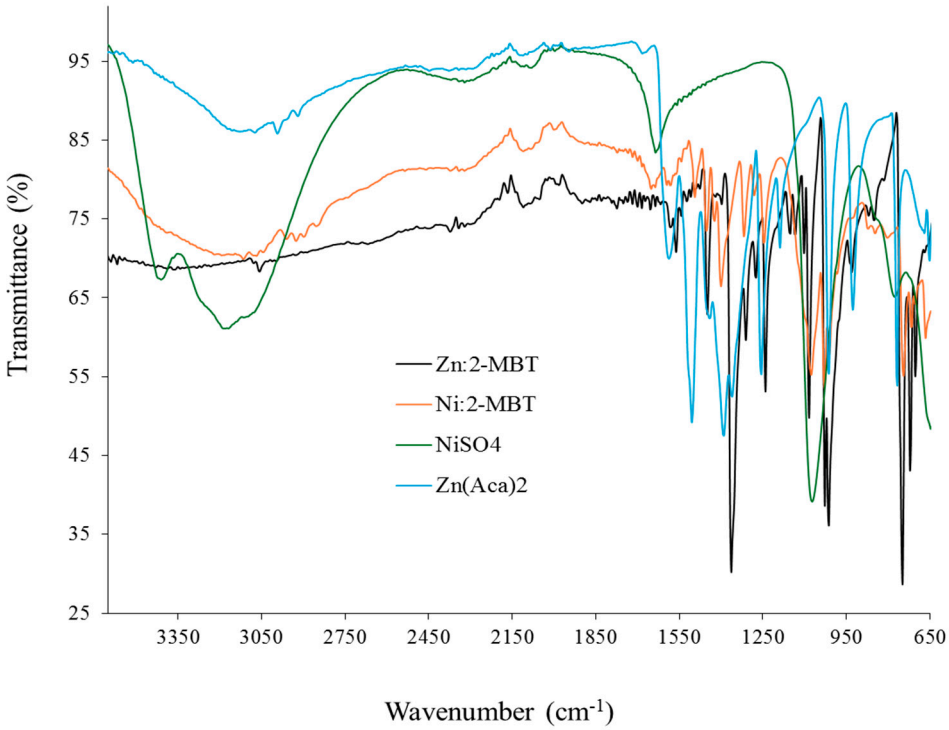


Figure S2: Superimposed FTIR spectra of Ni and Zn MOFs

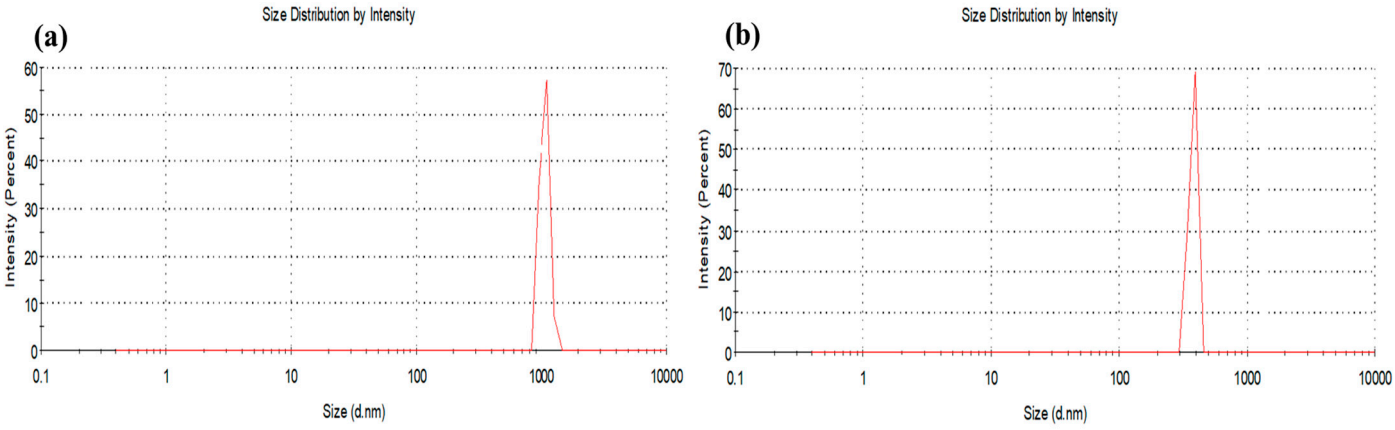


Figure S3: Particle size distribution of (a) Ni:2-MBT and (b) Zn:2-MBT MOFs

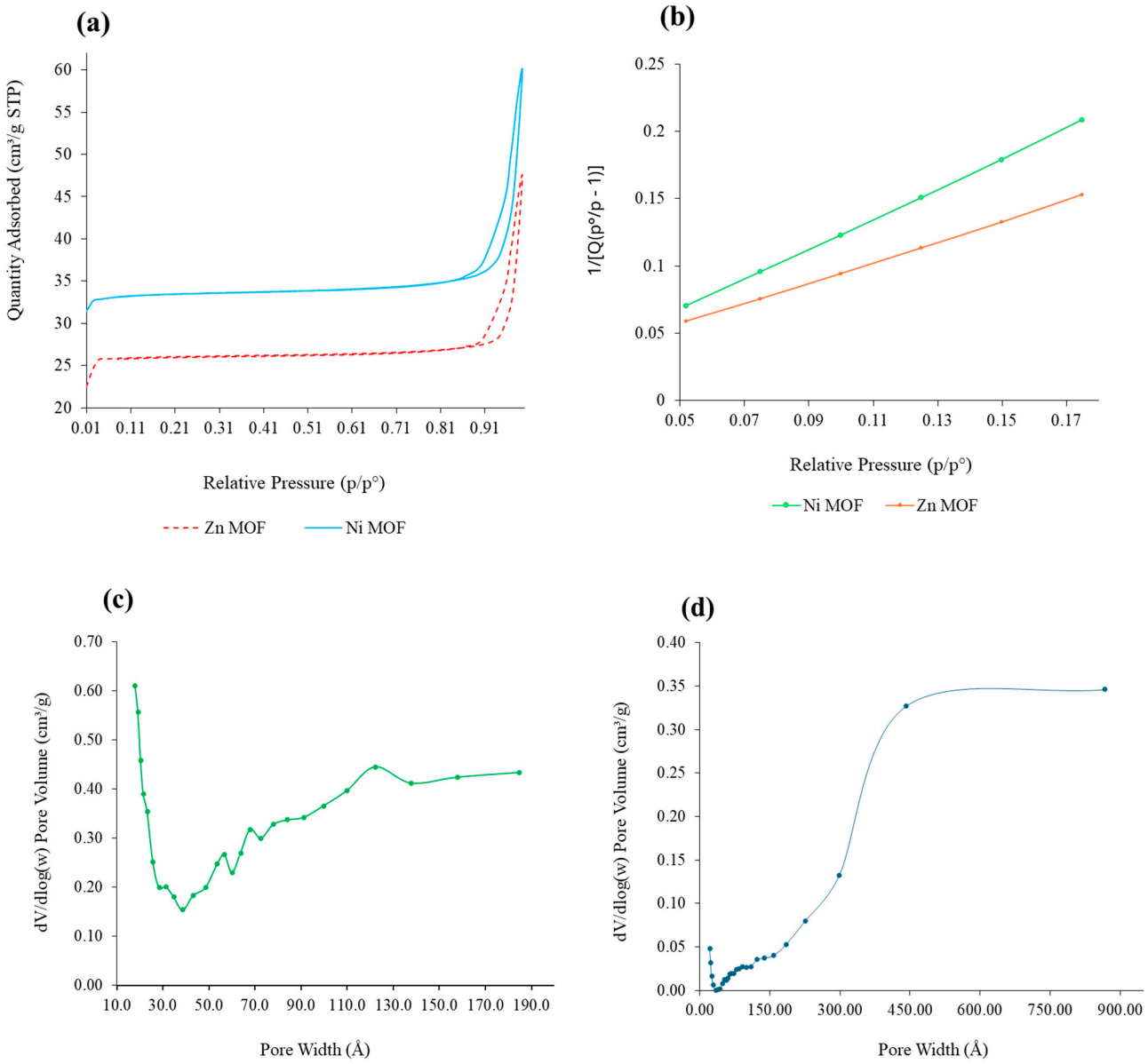


Figure S4: BET analysis: (a) Plot of N_2 adsorption-desorption isotherm, (b) BET fitted data, (c) Ni MOF and (d) Zn MOF pore volume vs pore width.

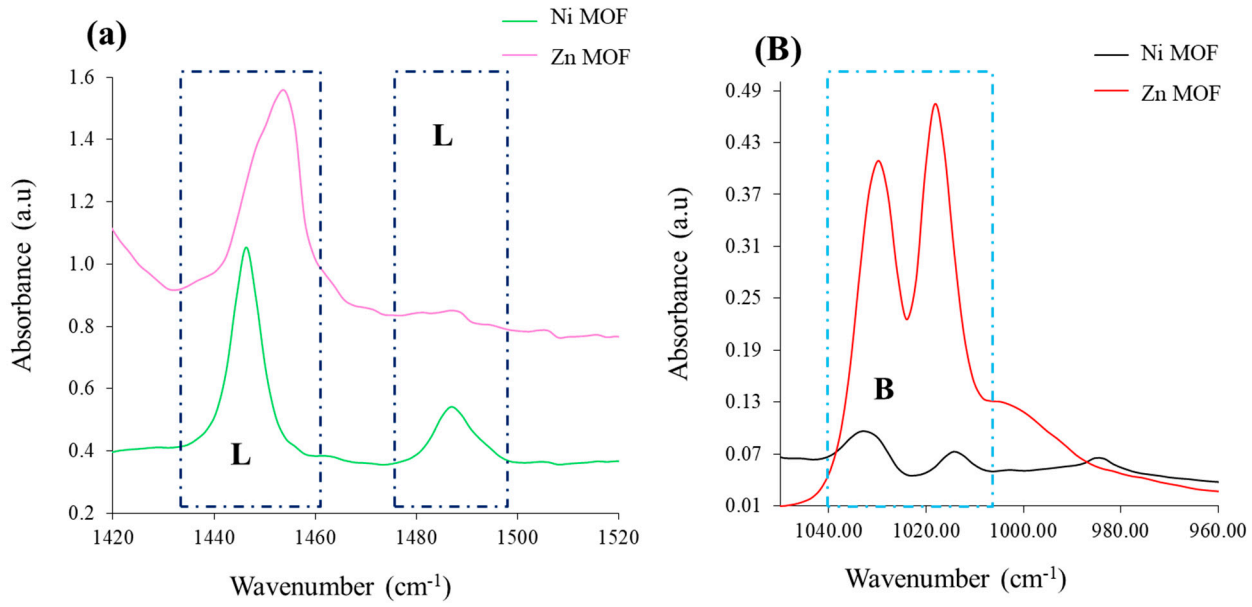


Figure S5: Superimposed DRIFT spectra of adsorbed (a) pyridine and (b) 2,6-lutidine on Ni and Zn MOFs

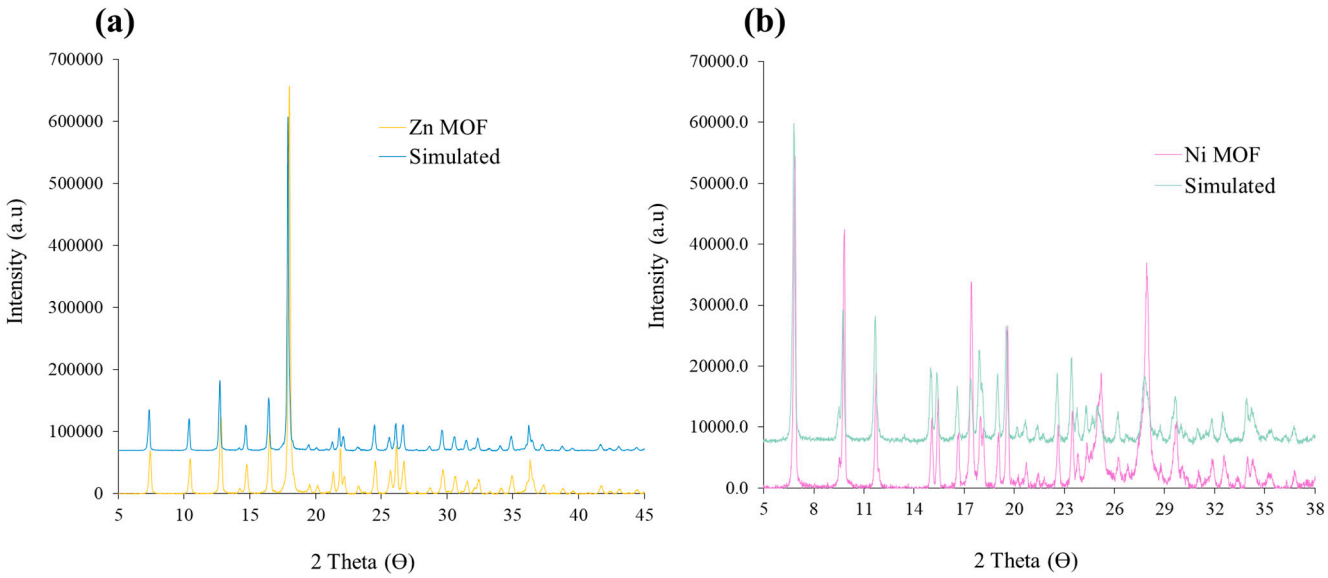


Figure S6: XRD patterns of (a) Zn MOF and (b) Ni MOF

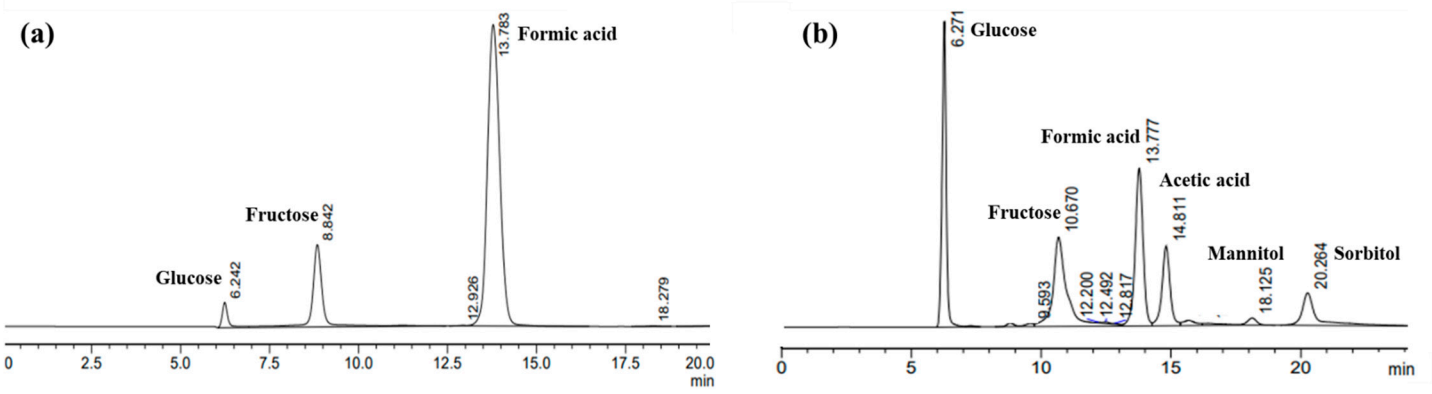


Figure S7: HPLC chromatograms obtained from the use of: (a) catalysts only, and (b) reaction mixtures