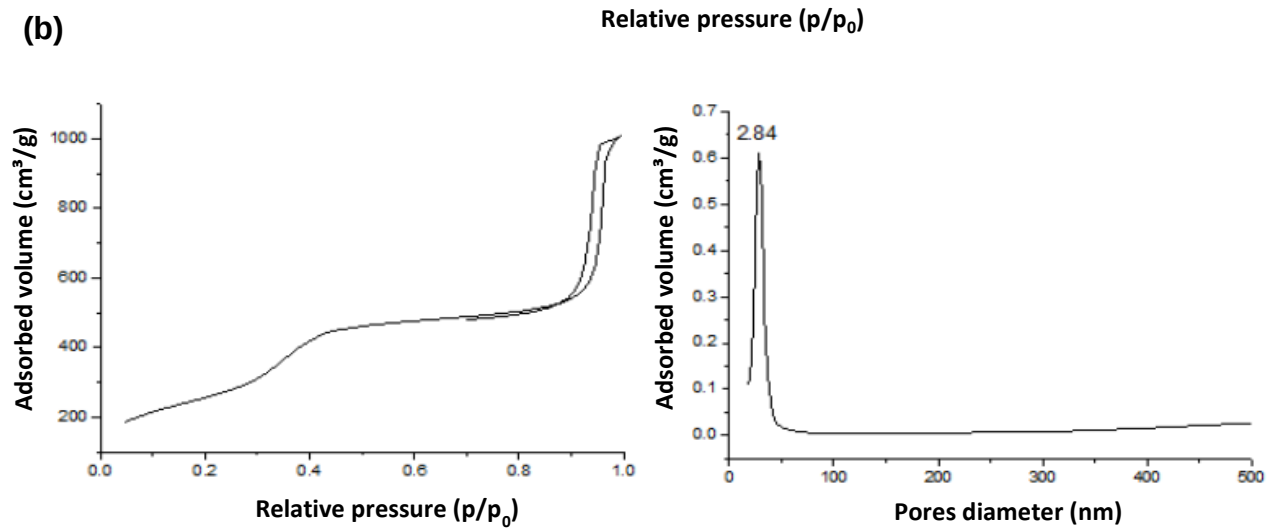
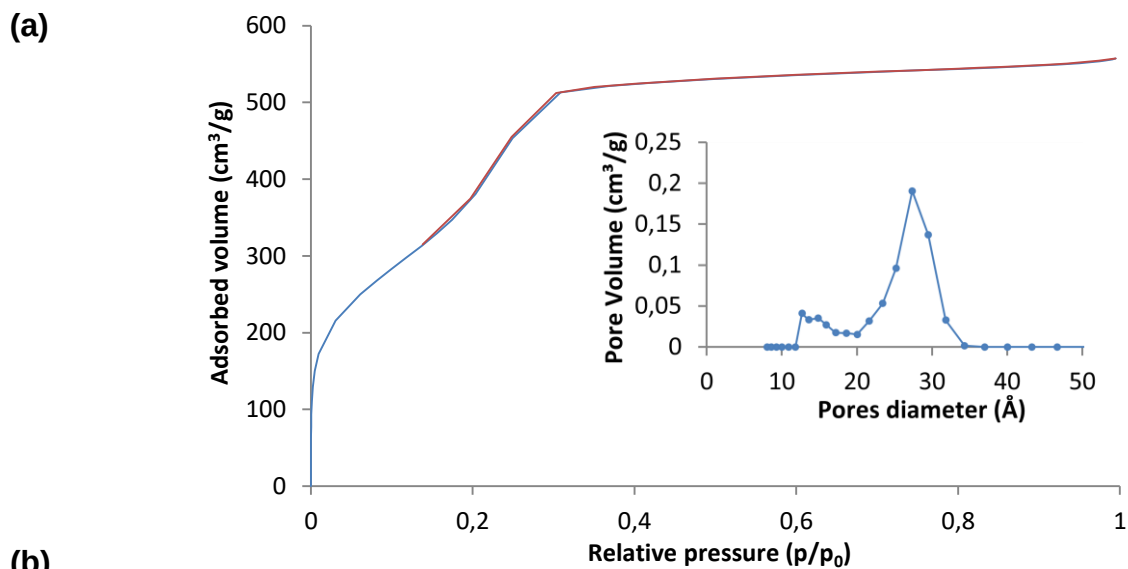
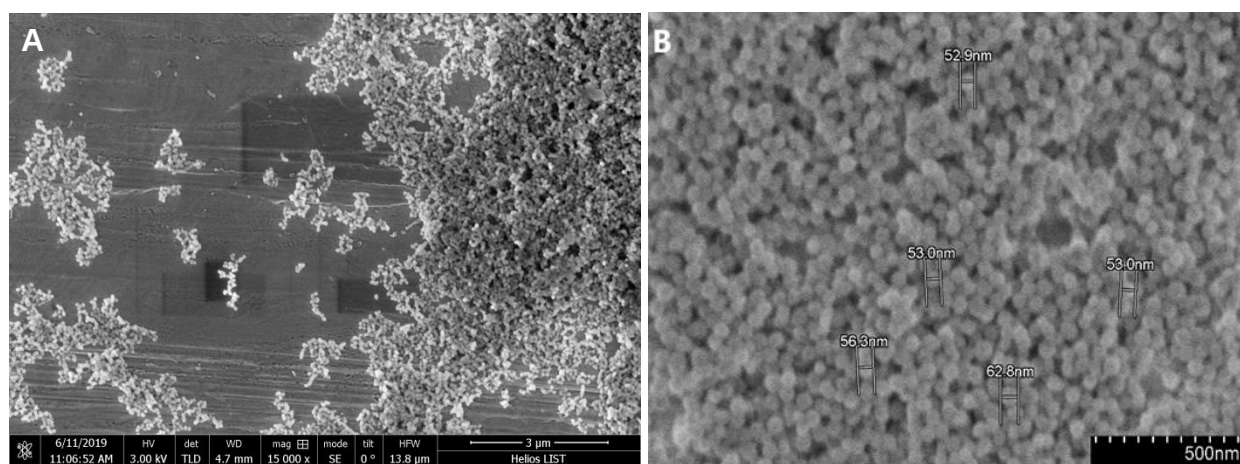
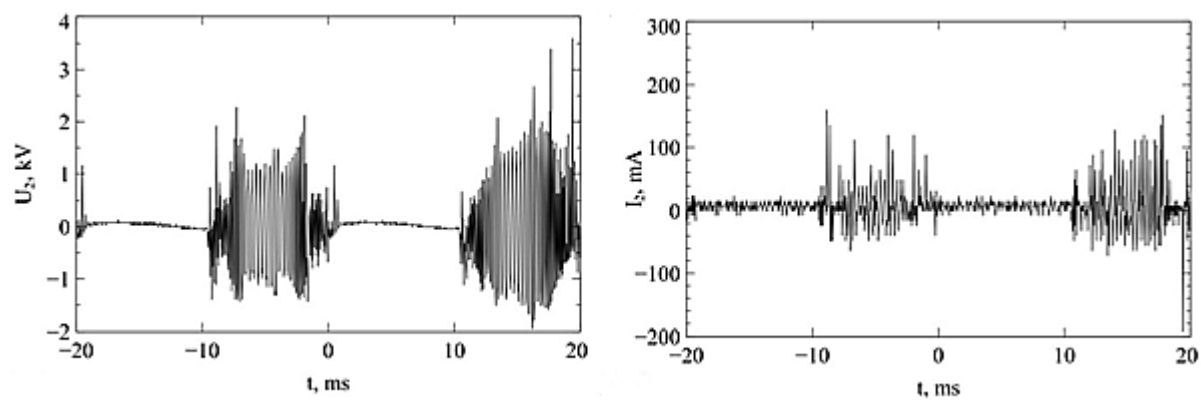




SM1. Nitrogen adsorption/desorption isotherms at 77 K of the (a) MCM-48 synthesized material with (inset) DFT pore size distributions obtained from N_2 physisorption curve (adsorption) and (b) of the MSNPs material.



SM 2. SEM image of MSNPs showing a narrow size dispersion.



SM 3. GAD voltage and current characteristics (secondary side of transformer).