

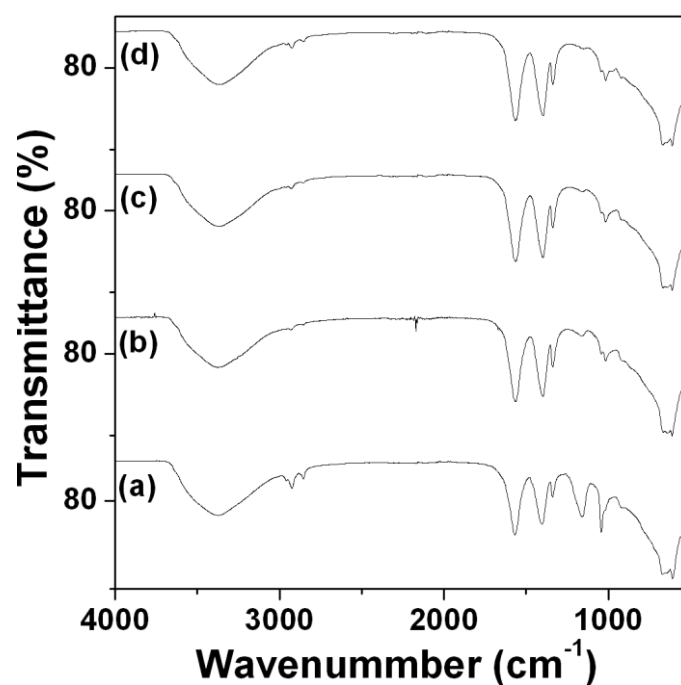
## SUPPLEMENTARY INFORMATION

### **Nickel-Zinc Hydroxy salts with varying amounts of Octahedral Zn<sup>2+</sup>: Trends in stability and selectivity in Anion exchange reaction**

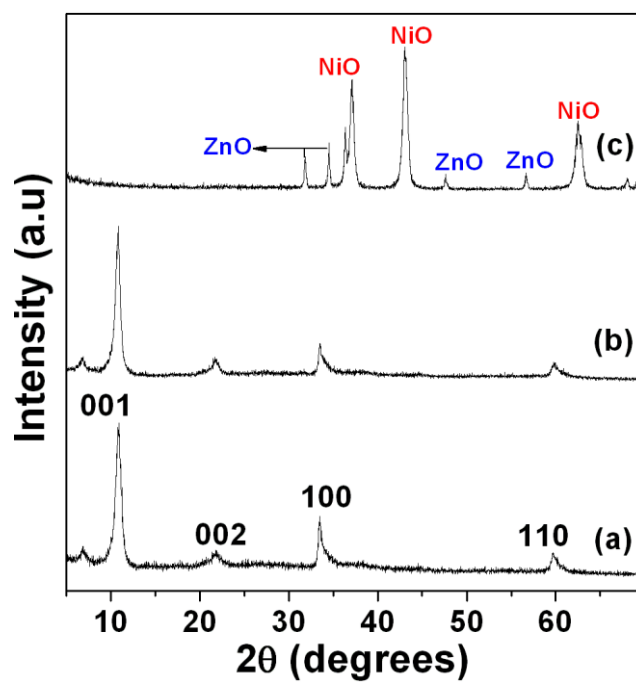
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**Figure S1.** IR spectra of the nickel-zinc hydroxy salts: NiZnHA-0 (a), NiZnHA-0.3 (b), NiZnHA-0.5 (c) and NiZnHA-0.7 (d).



**Figure S2.** PXRd patterns of the nickel-zinc hydroxy salts after halide exchange: (a) NiZnHA-0 and (b) NiZnHA-0.7. (c) PXRd pattern of the thermal decomposition of halide exchanged NiZnHA-0.7 showing reflections due to both NiO and ZnO.