

Supporting information

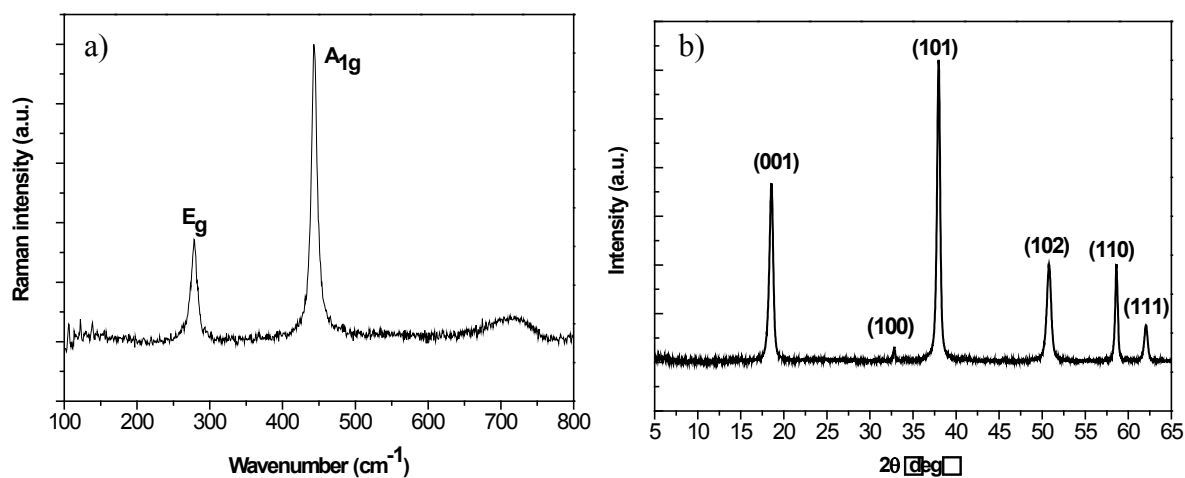


Figure S1 : Raman spectra (a) and XRD patterns (b) of the solid phase obtained at the end of the Mg²⁺ solution titration

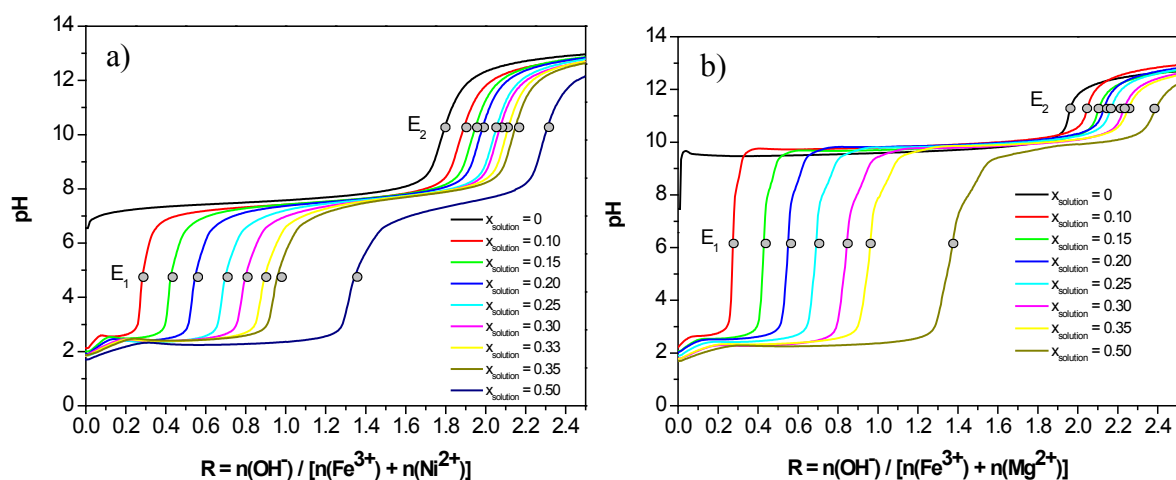


Figure S2 : Titration curves for different x_{solution} for (a) Ni²⁺-Fe³⁺ mixed cation solutions and (b) Mg²⁺-Fe³⁺ mixed cation solutions

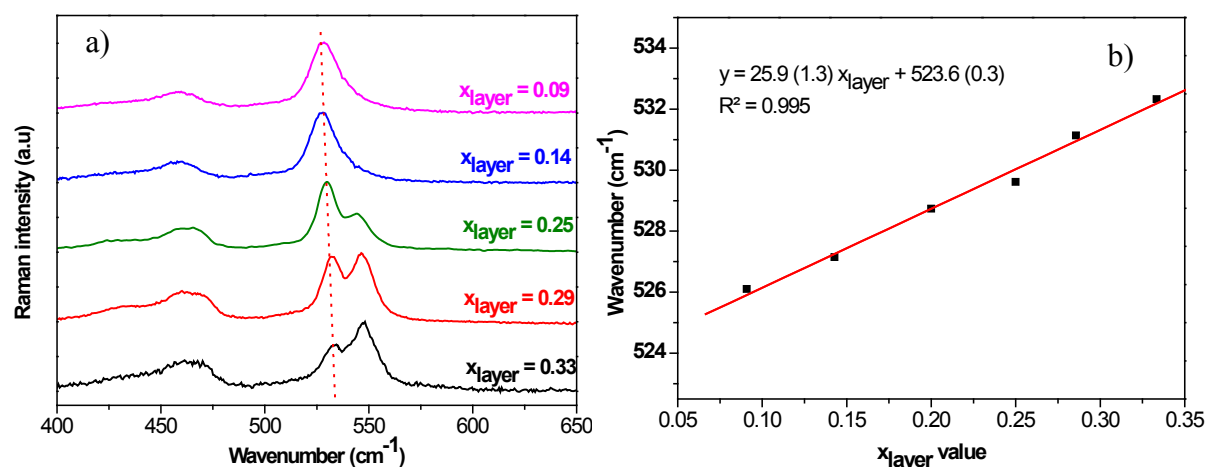


Figure S3 : (a) Raman spectra of Ni^{II}-Fe^{III} LDH with different x_{layer} values and (b) correlation between the wavenumber of the LDH Raman band and the x_{layer} values. The numbers in brackets refer to the standard deviation for each parameter of the linear regression.

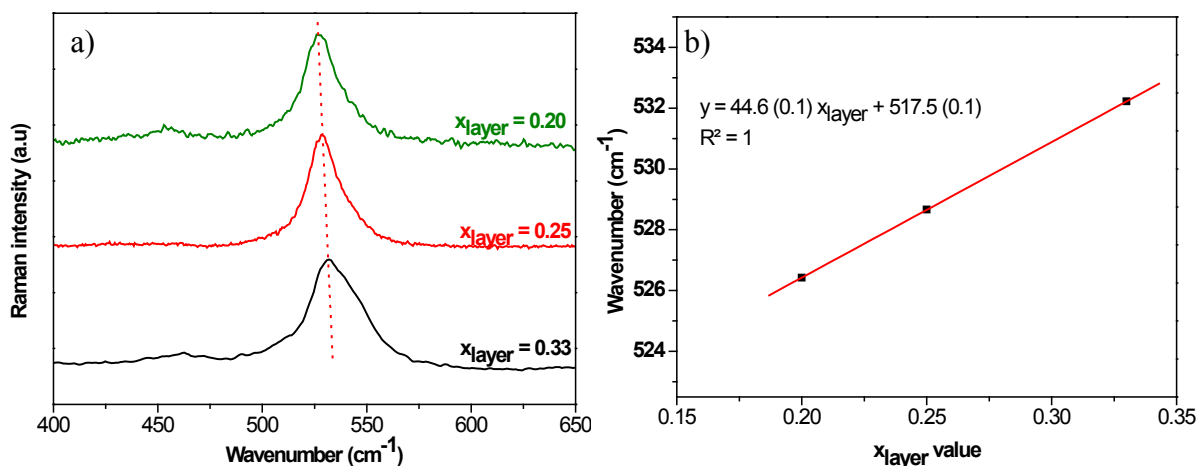


Figure S4 : (a) Raman spectra of Mg^{II}-Fe^{III} LDH with different x_{layer} values and (b) correlation between the wavenumber of the LDH Raman band and the x_{layer} values. The numbers in brackets refer to the standard deviation for each parameter of the linear regression.

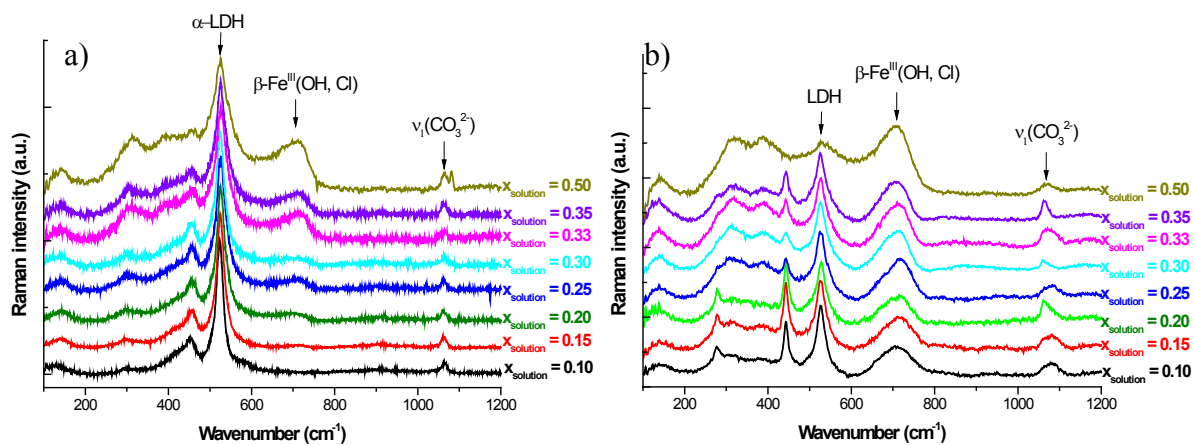


Figure S5 : Raman spectra in the spectral range 100-1200 cm⁻¹ (a) same as Figure 8a and (b) same as Figure 12a