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Influence of Morphology in the Magnetic Properties of Layered Double Hydroxides

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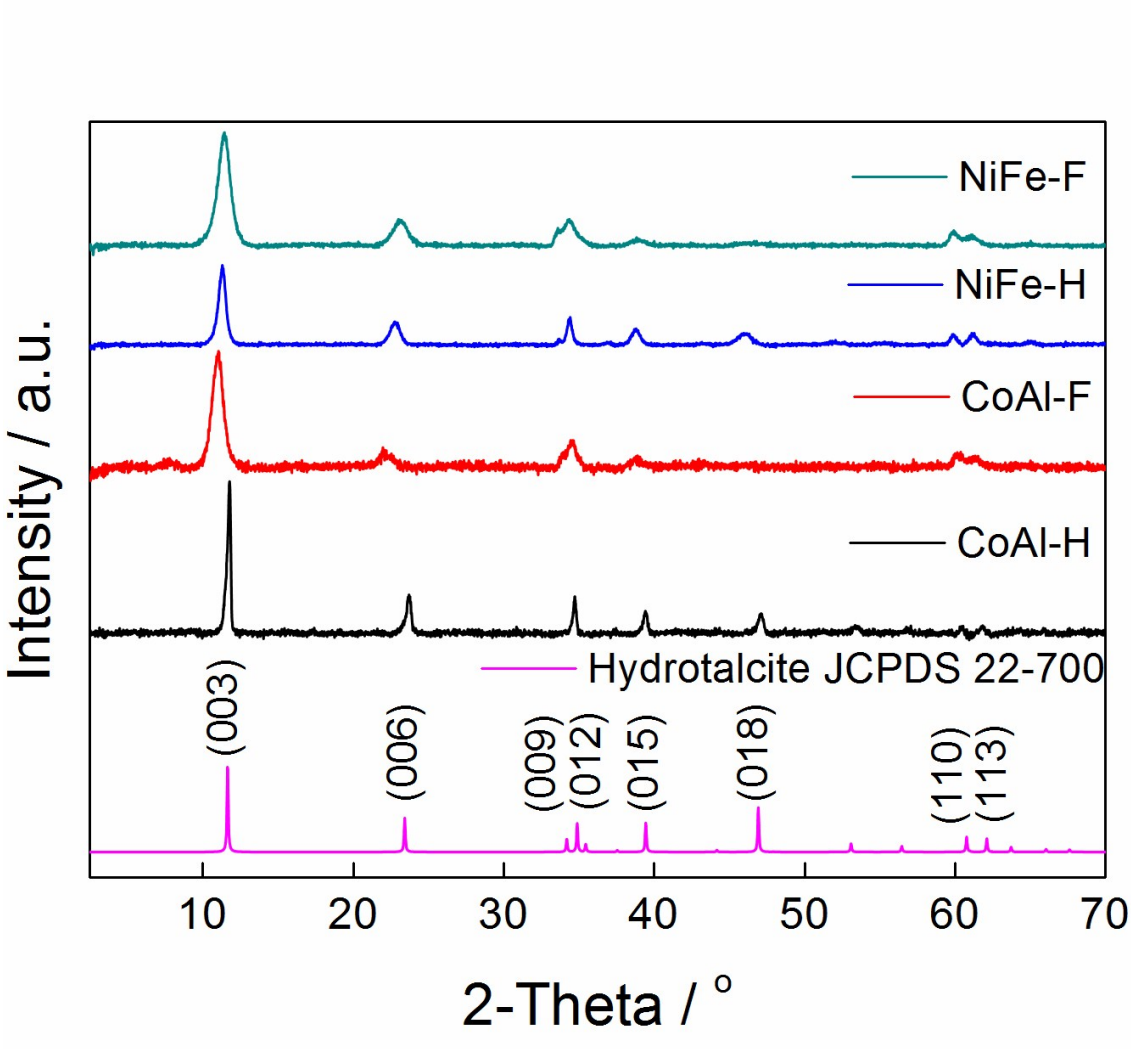
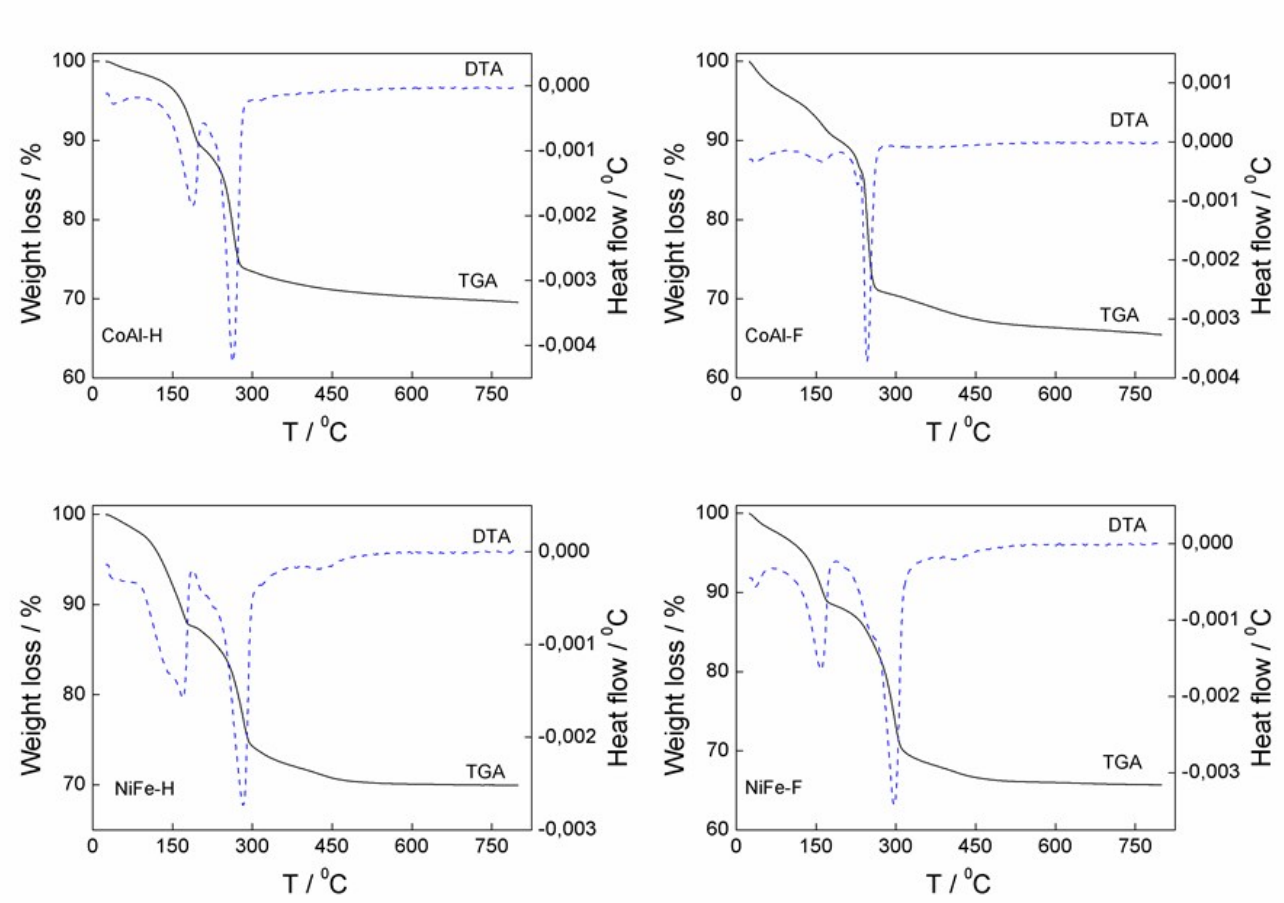
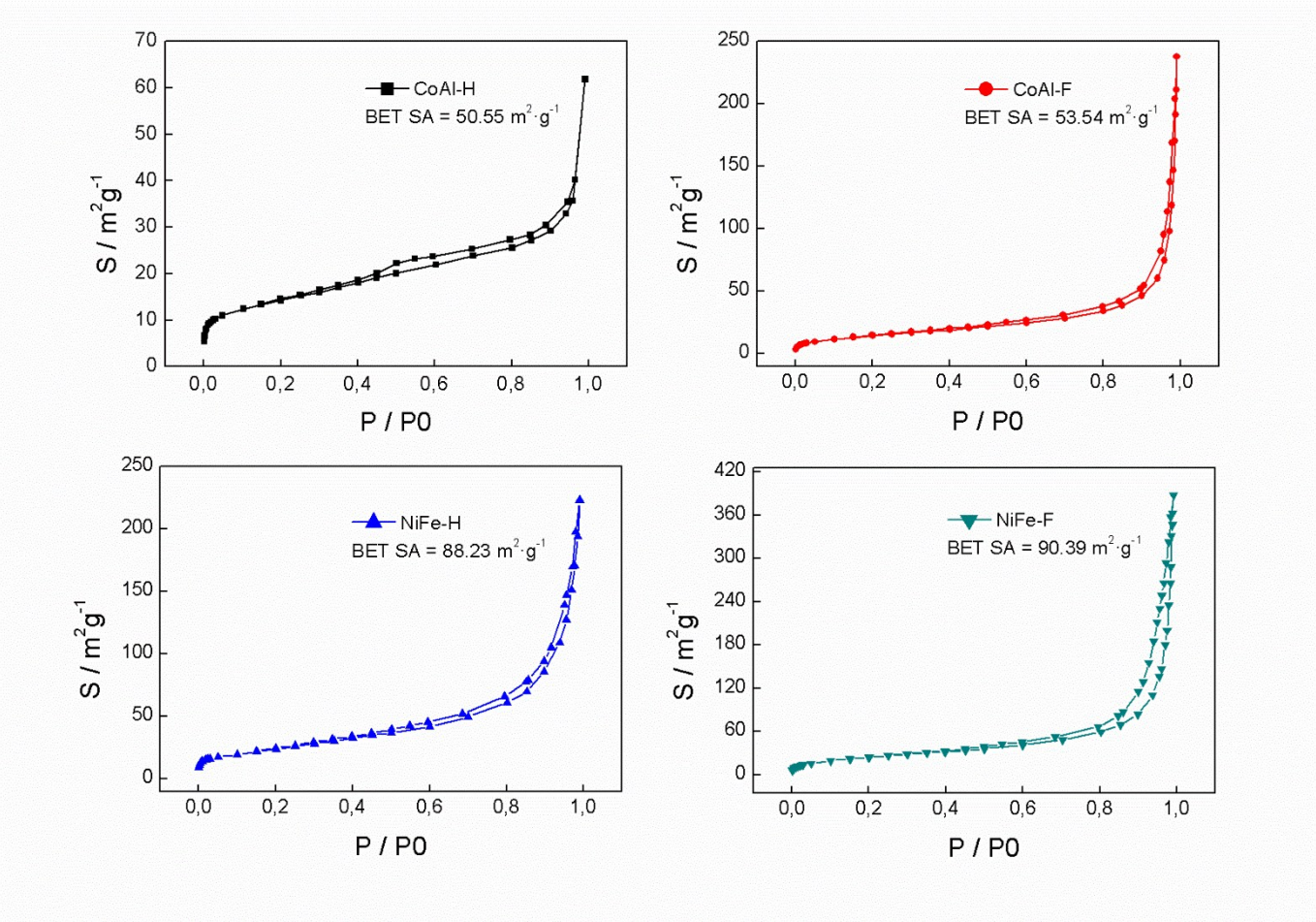
SI 1. Magnified XRPD patterns.



SI 2. Individual TGA/DTA curves.

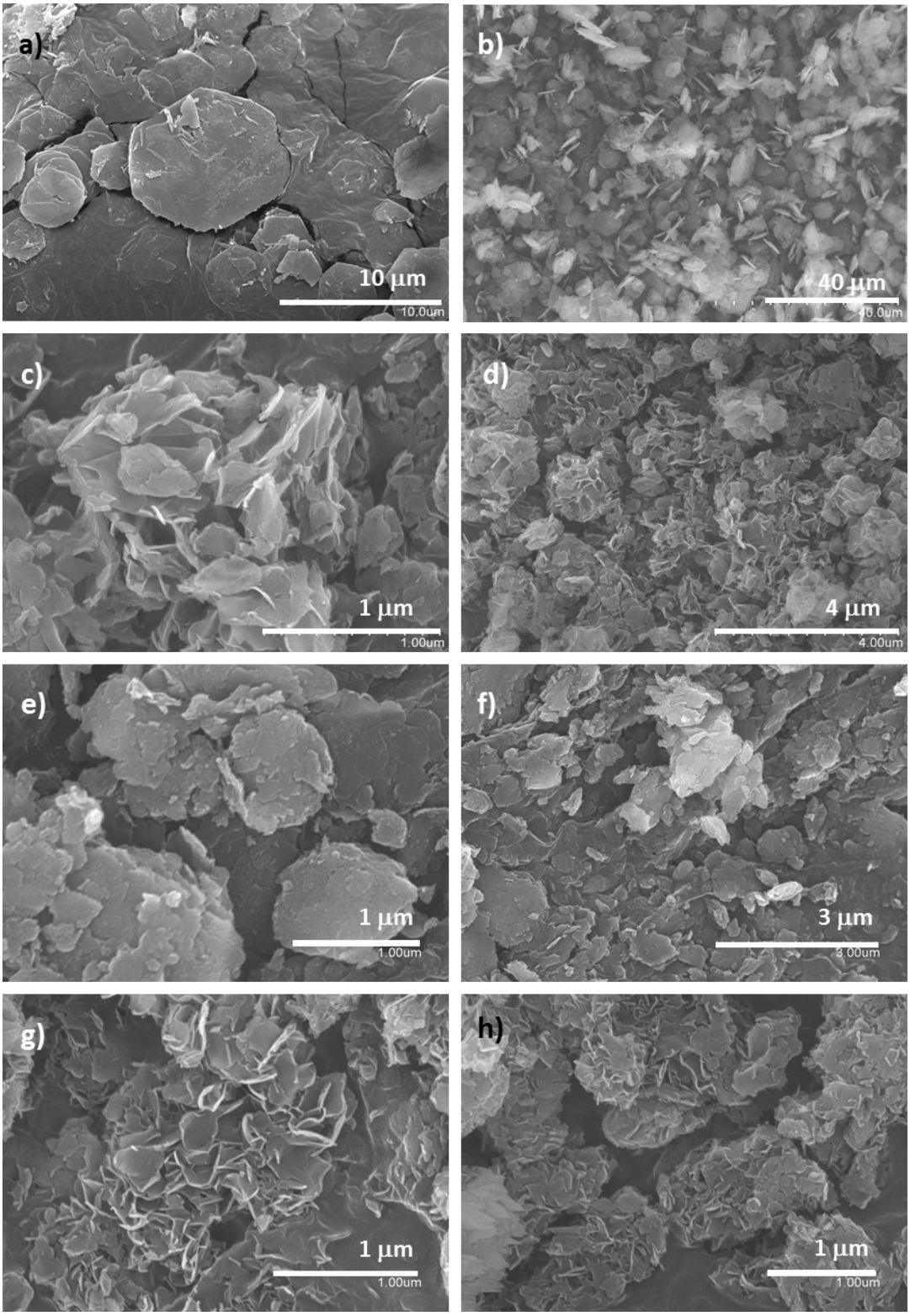


SI 3. Individual N_2 adsorption-desorption isotherms.

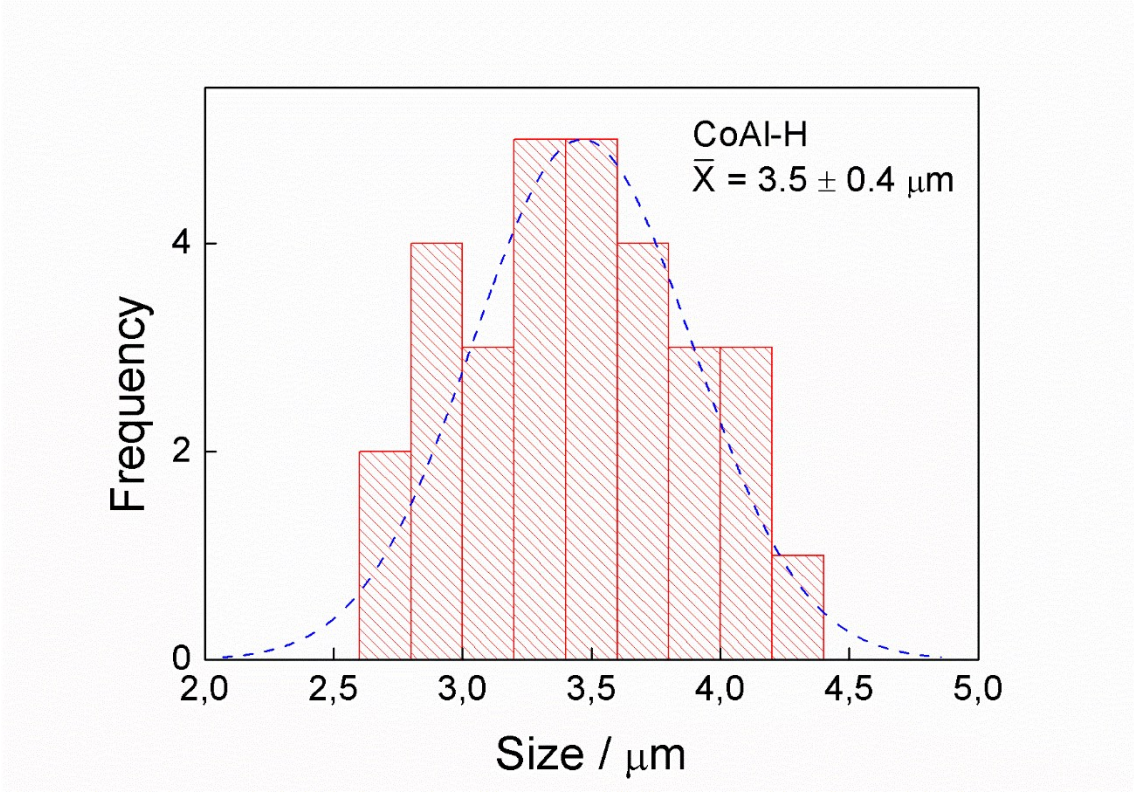


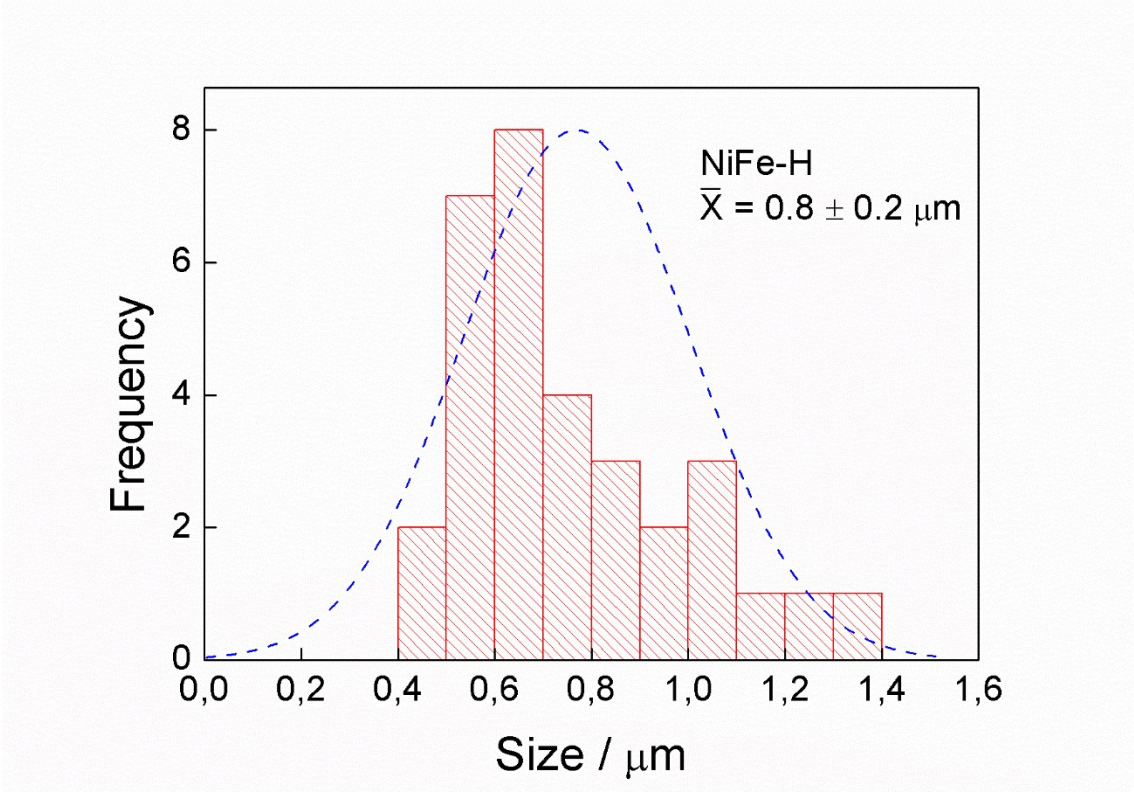
SI 4. Additional FESEM images.

CoAl-H (a and b), CoAl-F (c and d), NiFe-H (e and f) and NiFe-F (g and h).



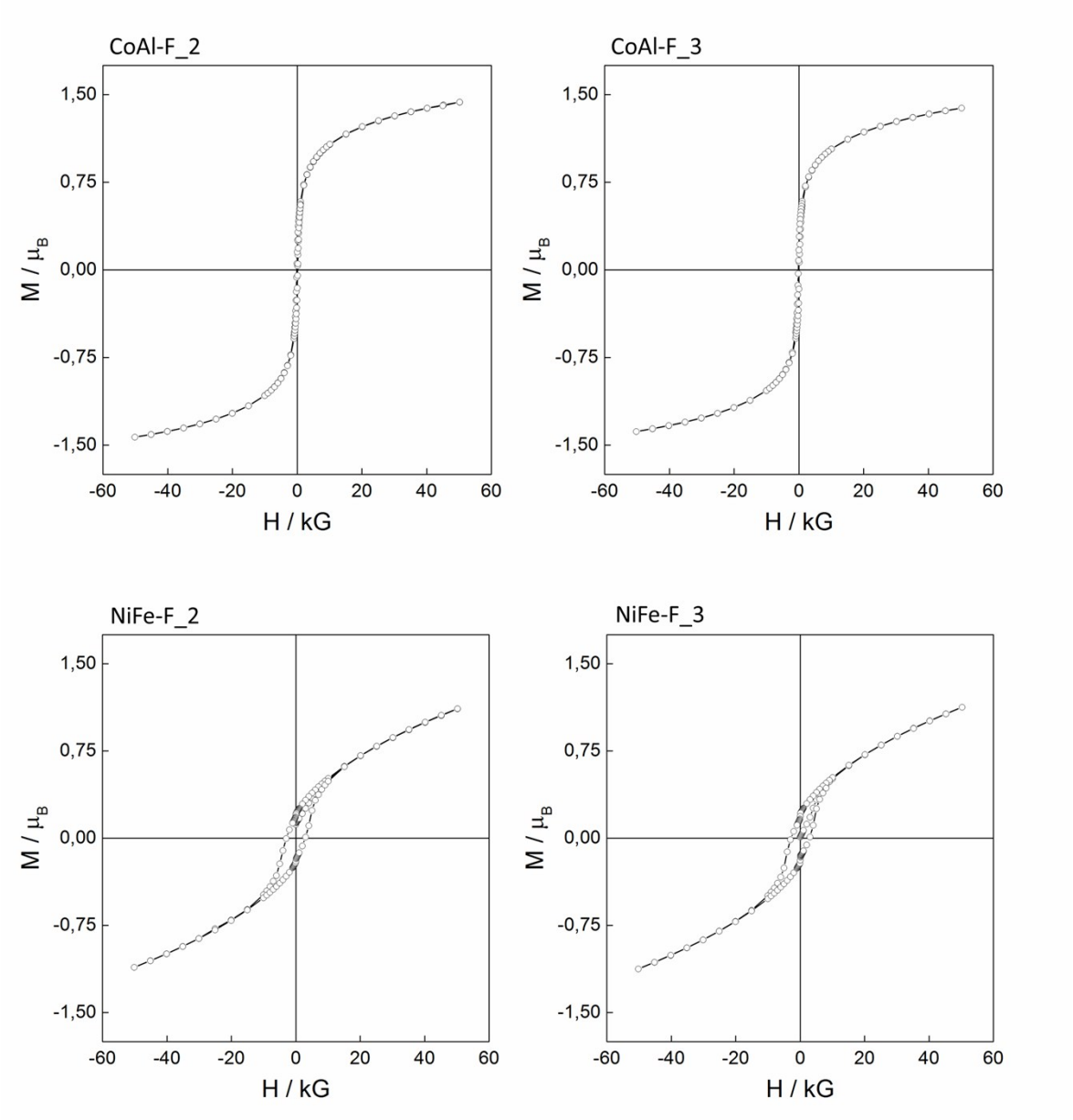
SI 5. Size histograms for the hexagonal samples.





SI 6. Hysteresis cycles of flower-like samples with small variations in their M^{2+}/M^{3+} ratio.

Sample	EDAX ratio M^{2+}/M^{3+}	Saturation Magnetization (M_s) at 2 K
CoAl-F (main text)	(0.70/0.30) = 2.3	1.54 μ_B
CoAl-F_2	(0.68/0.32) = 2.1	1.45 μ_B
CoAl-F_3	(0.67/0.33) = 2.0	1.42 μ_B
NiFe-F (main text)	(0.69/0.31) = 2.2	1.05 μ_B
NiFe-F_2	(0.70/0.30) = 2.3	1.10 μ_B
NiFe-F_3	(0.68/0.32) = 2.1	1.12 μ_B



SI 7. Arrhenius fitting of the out-of-phase (χ''_M) signal.

Arrhenius fitting of the out-of-phase (χ''_M) signal for CoAl-H (a), CoAl-F (b), NiFe-H (c) and NiFe-F (d).