

Supporting Information

for RCS Advances, See DOI: 10.1039/b000000x/

Iron Chromium Oxide Nanoparticles Self-Assembling into Smectic Mesophases

M. Iacob, M. Cazacu, C. Racles, M. Ignat, V. Cozan, L. Sacarescu, M. Kajňaková, M. Botko, A. Feher, C. Turta

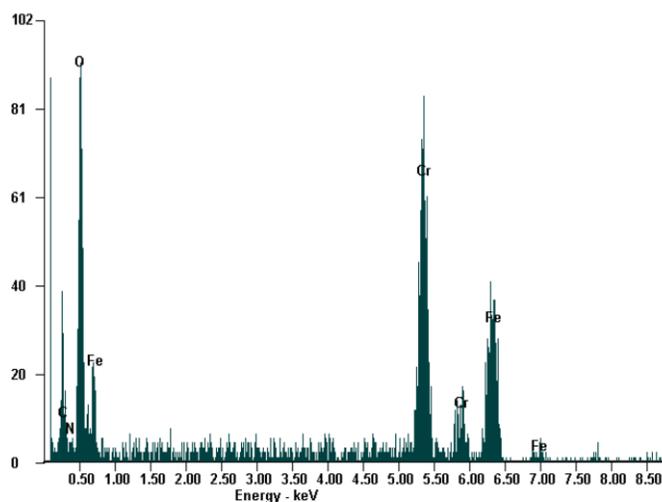


Figure S1. EDX spectrum for organic-coated NPs sample.

Table S1. The peak assignment (d spacing values) in comparison with literature data

d value of NPs [\AA]	d value of chromite [\AA] ^{a)}
2.93	2.93
2.52	2.53
1.6	1.61
1.48	1.48

^{a)} d value (\AA) from ICDD 34-140 for chromite)

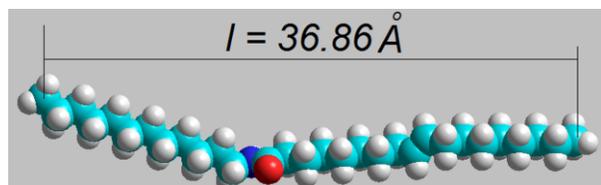


Figure S2. Hyperchem simulation of the geometry of an amide chemical model

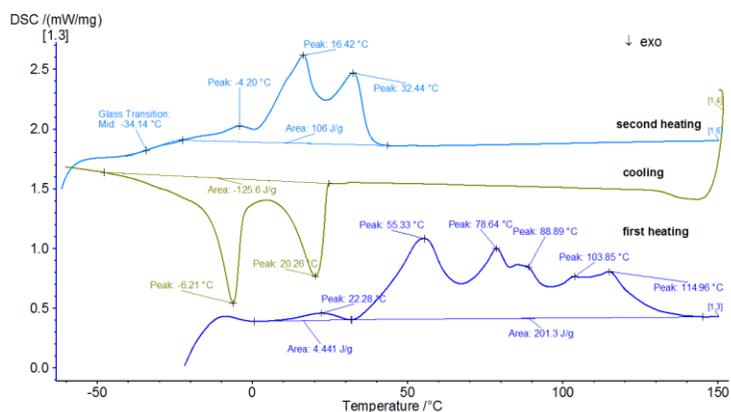


Figure S3. DSC thermogram of Sfs at a heating/cooling rate of 10 °C/min under nitrogen.

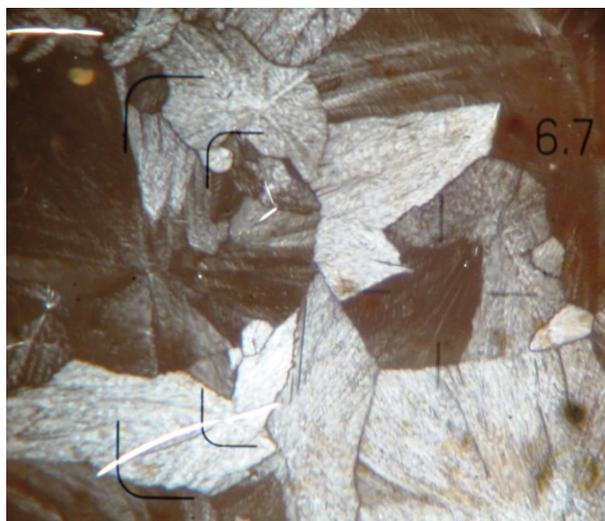


Figure S4. Optical polarized light image of Sfs at 50 °C under cooling.

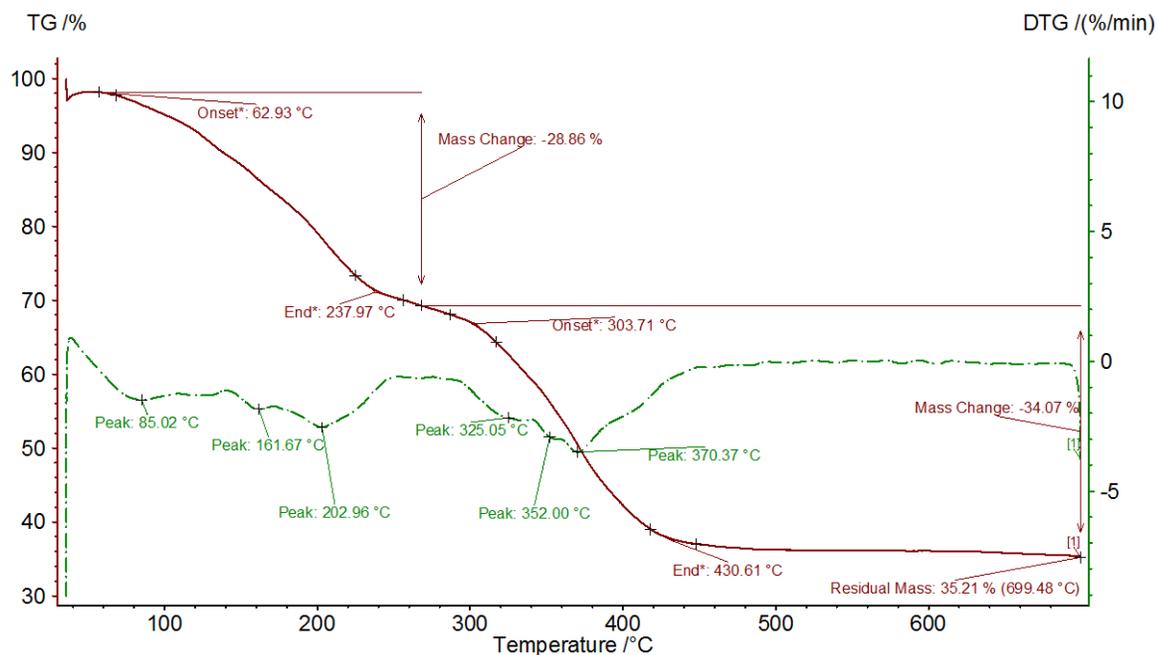


Figure S5. TG - DTG curves recorded in nitrogen atmosphere for iron-chromium acetate.

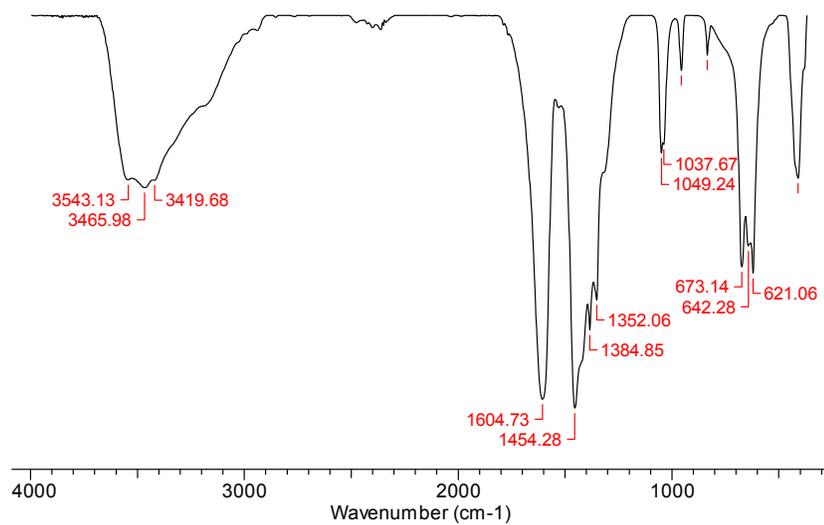


Figure S6. FTIR spectrum of μ_3 -oxo heterotrimeric $\{\text{FeCr}_2\text{O}\}$ acetate.

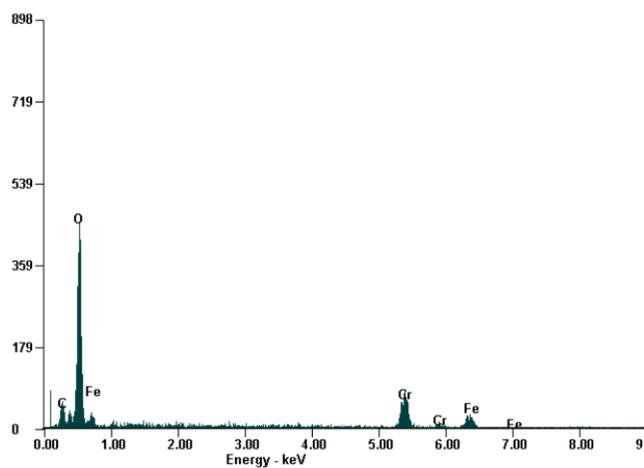


Figure S7. EDX spectrum of μ_3 -oxo heterotrimeric $\{\text{FeCr}_2\text{O}\}$ acetate.