

Supplementary Materials

Induction Heating in Nanoparticle Impregnated Zeolite

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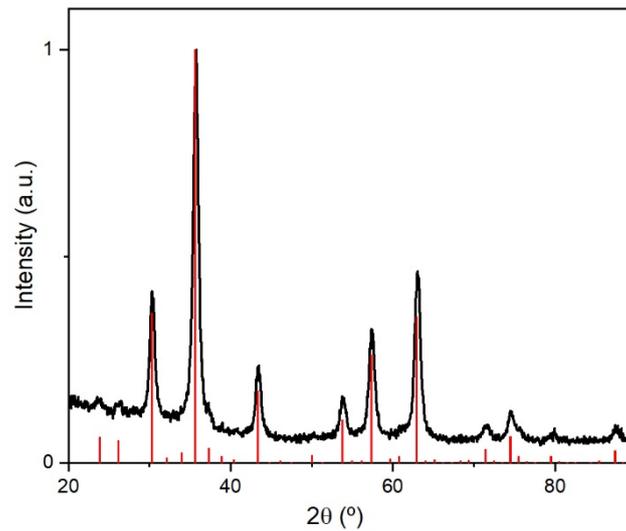


Figure S1. Experimental XRD diffraction pattern of γ -Fe₂O₃ nanoparticles (black lines). The red bars are the peaks and intensity of the calculated diffraction pattern according to ICSD 01-089-5892.

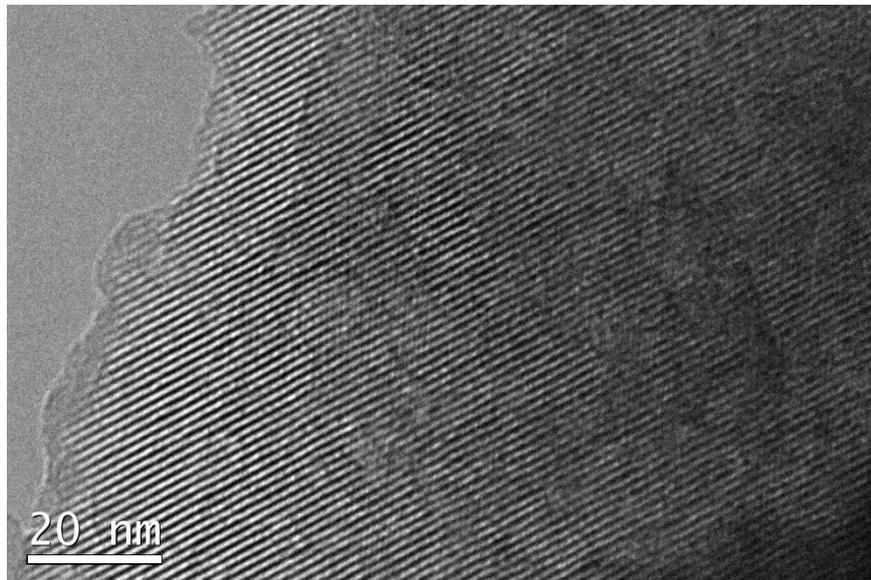


Figure S2. TEM image of the H-USY (40). Lighter zones corresponding to mesopores and the sodalite structure are observed.

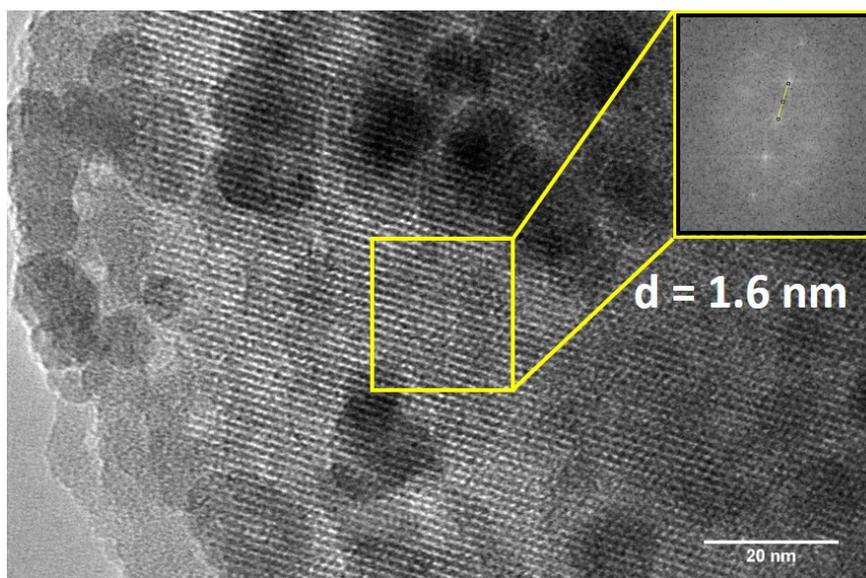
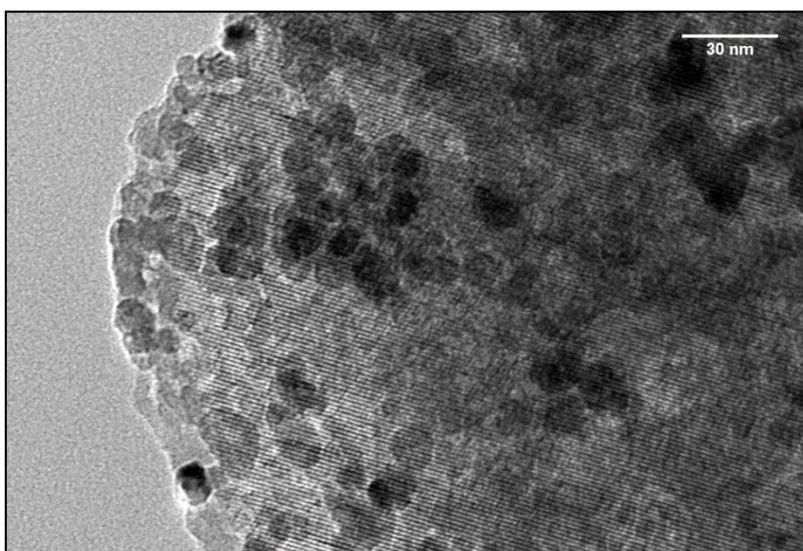
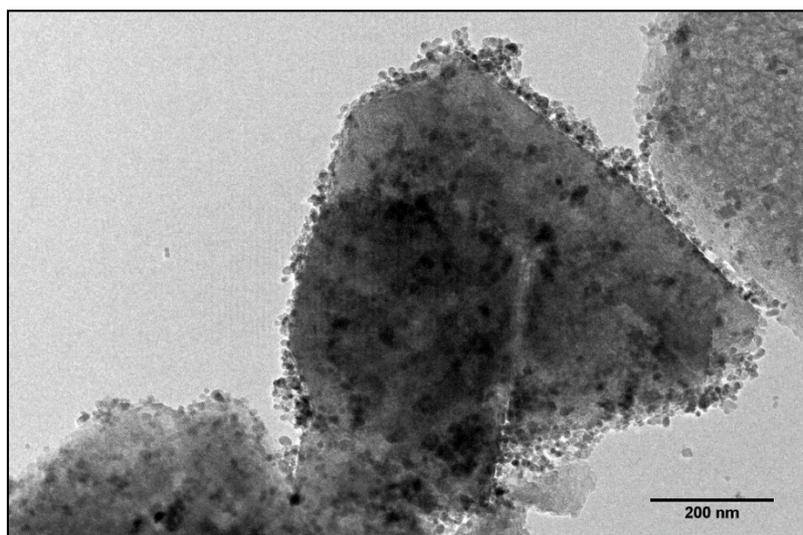


Figure S3. TEM image of the nanoparticles impregnated zeolite H-USY (40). The lighter lines are separated by 1.6 nm and correspond to the spherical supercages showing a diameter of 1.6 nm.



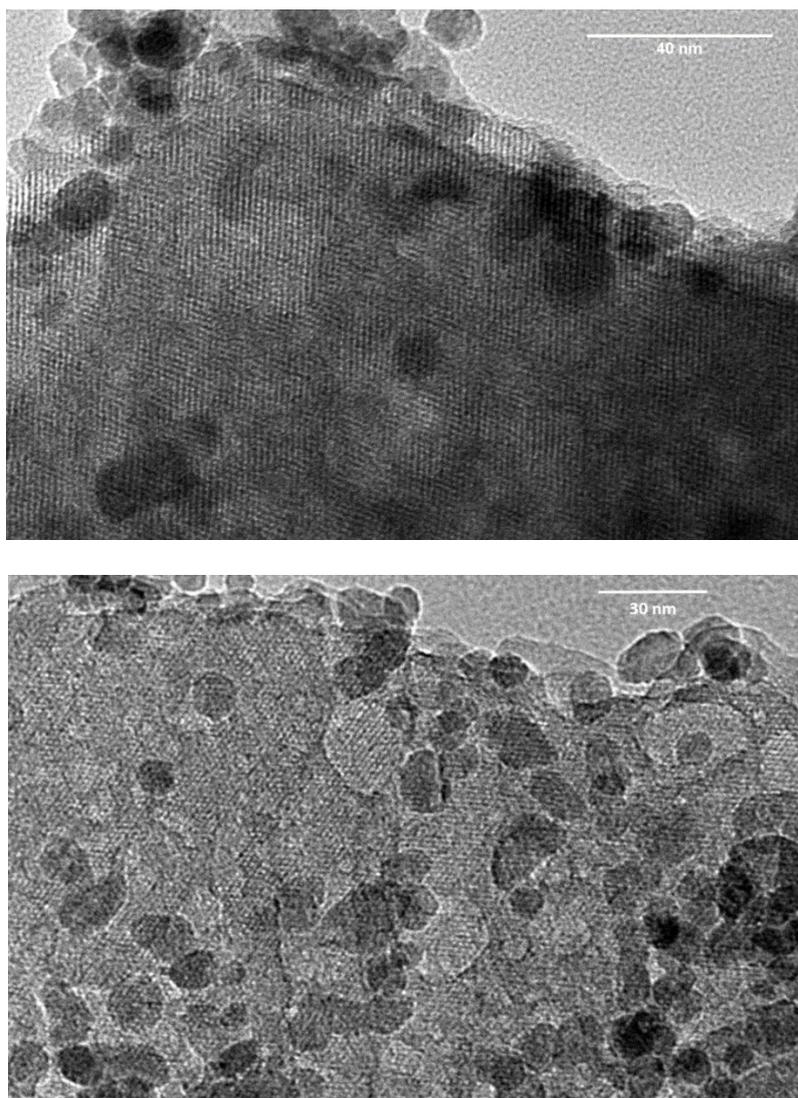


Figure S4. Nanoparticles impregnated zeolite H-USY (40) at different augments.

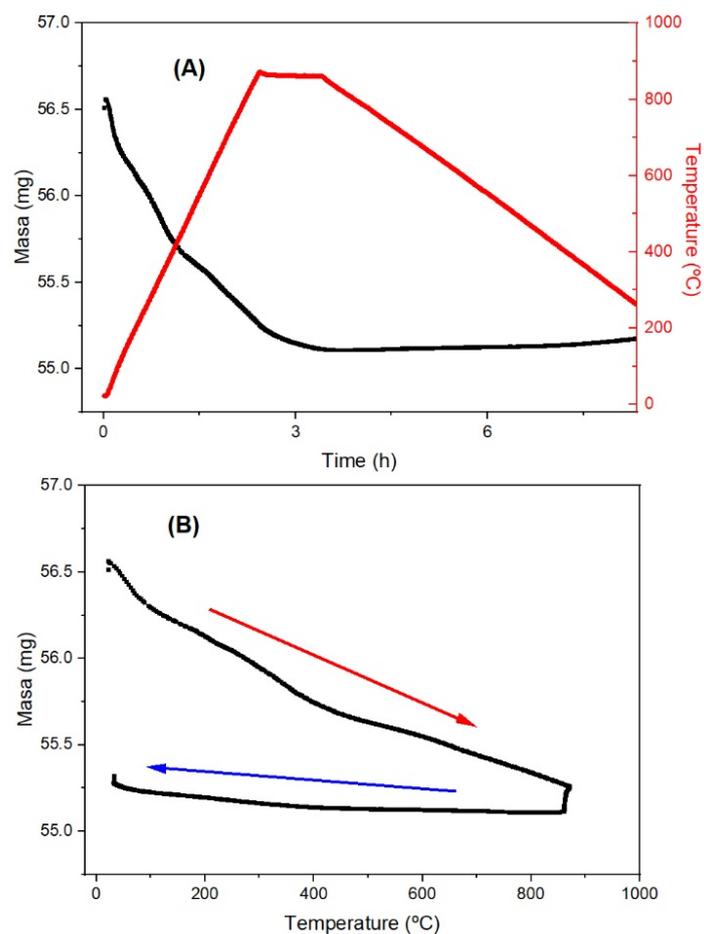


Figure S5. (A) Degassing of the nanoparticles impregnated zeolite H-USY40. (B) Change of mass rate on heating (red arrow) and cooling (blue arrow).



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