

Advanced
**Synthesis &
Catalysis**

Supporting Information

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Electronic Supplementary Information

**Platinum Nanoparticles Supported on Ionic Liquid-Modified Magnetic
Nanoparticles: Selective Hydrogenation Catalysts**

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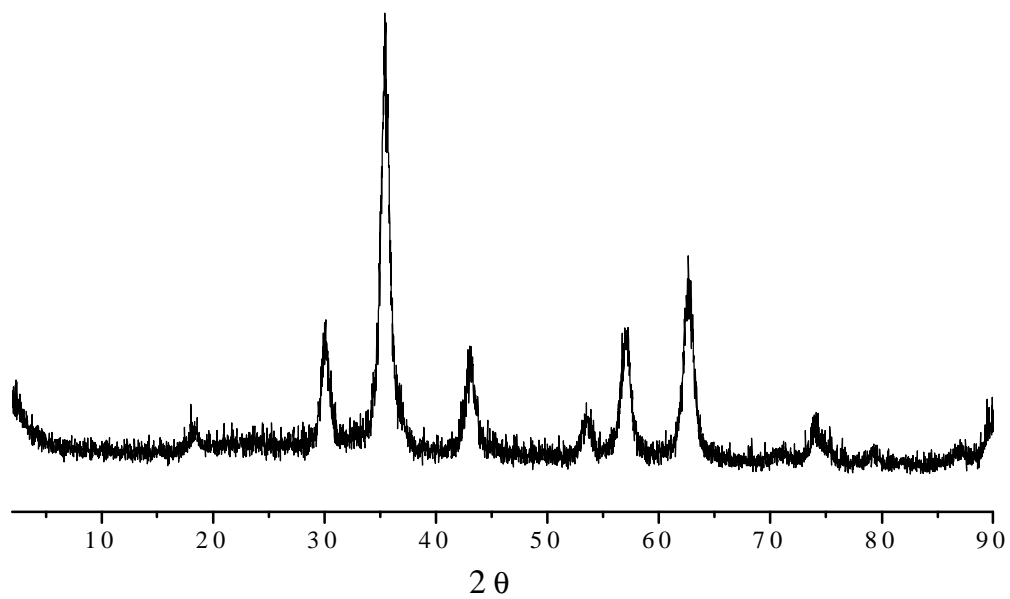


Figure 1. XRD pattern of magnetite nanoparticles modified with ionic liquid **IL-C4**.

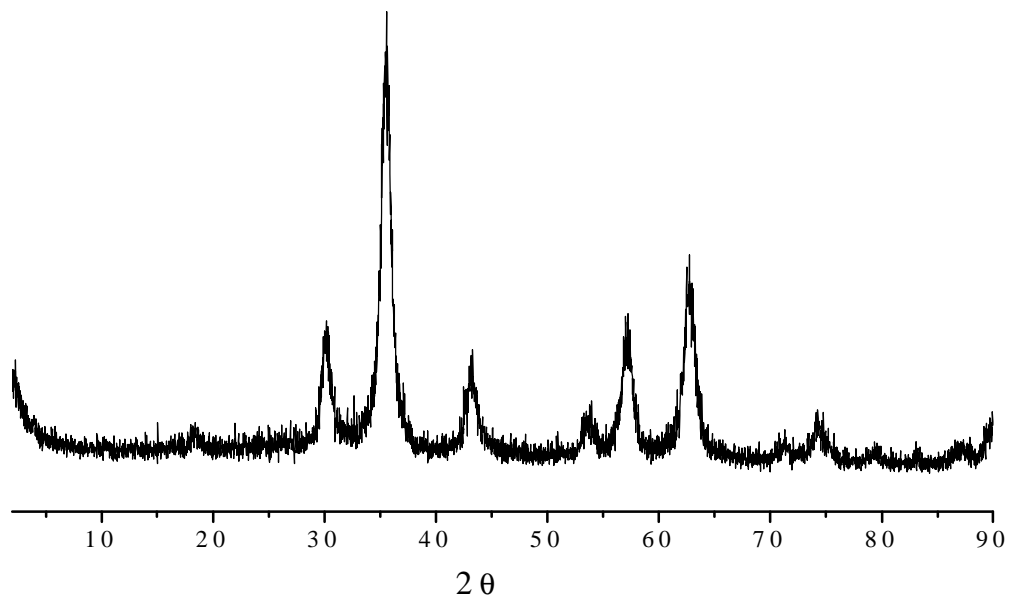


Figure 2. XRD pattern of magnetite nanoparticles modified with ionic liquid **IL-C10**.

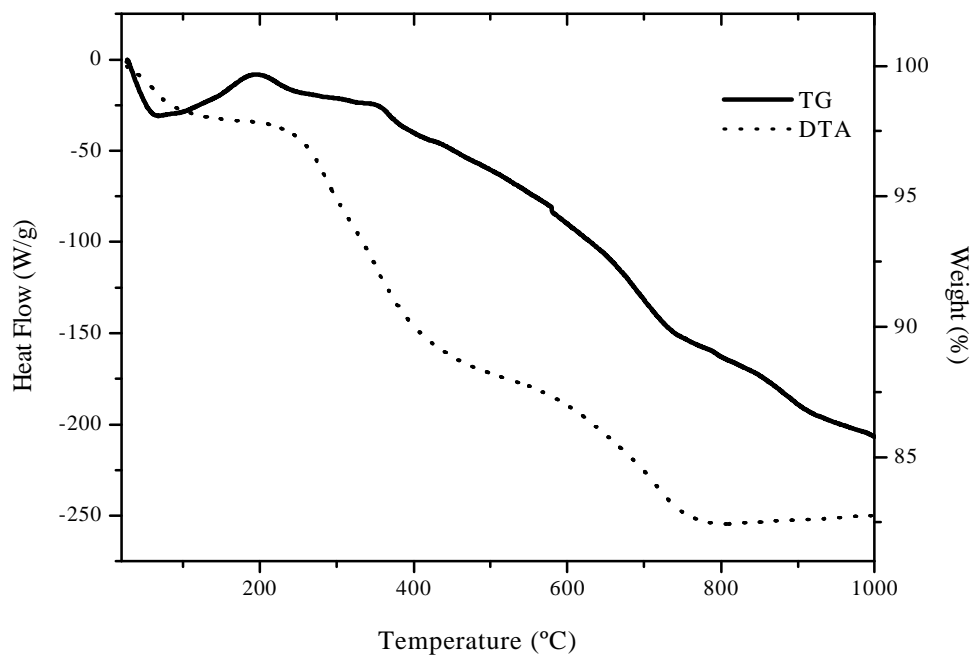


Figure 3. DTA-TG curves for magnetite nanoparticles modified with ionic liquid **IL-C₄**.

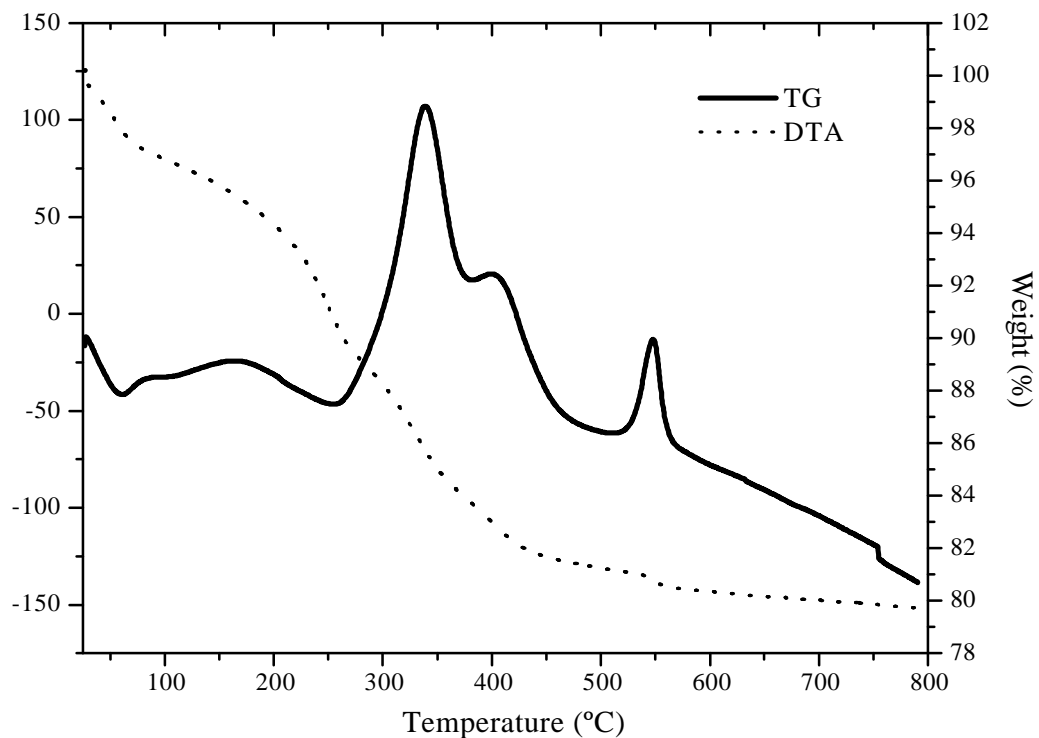


Figure 4. DTA-TG curves for magnetite nanoparticles modified with ionic liquid **IL-COOH**.

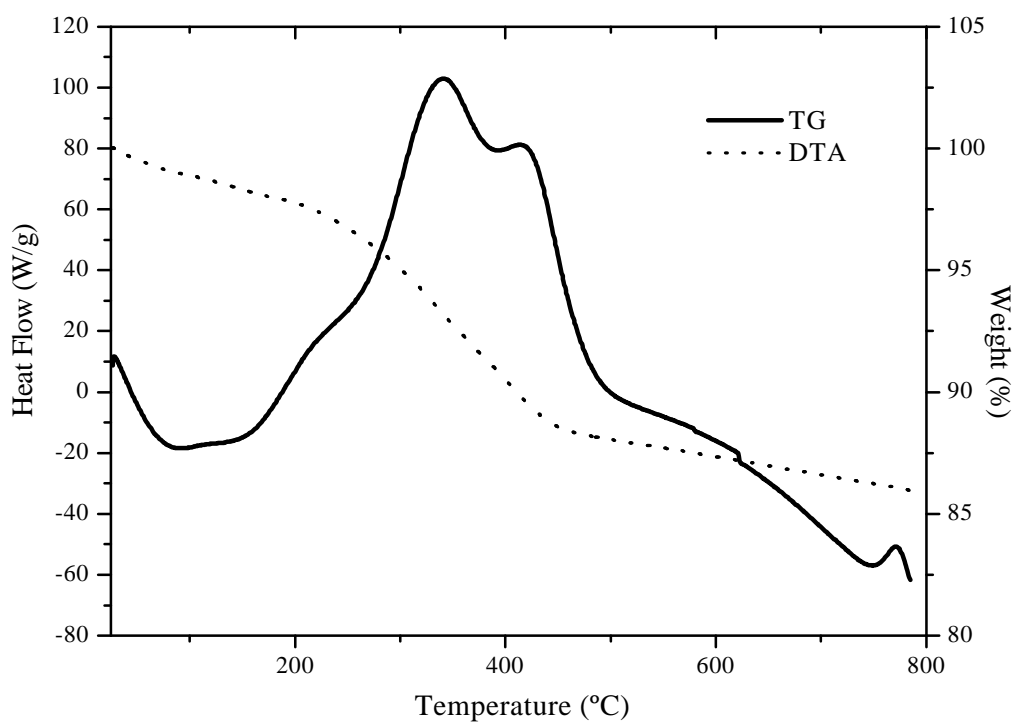


Figure 5. DTA-TG curves for magnetite nanoparticles modified with ionic liquid **IL-C₈**.

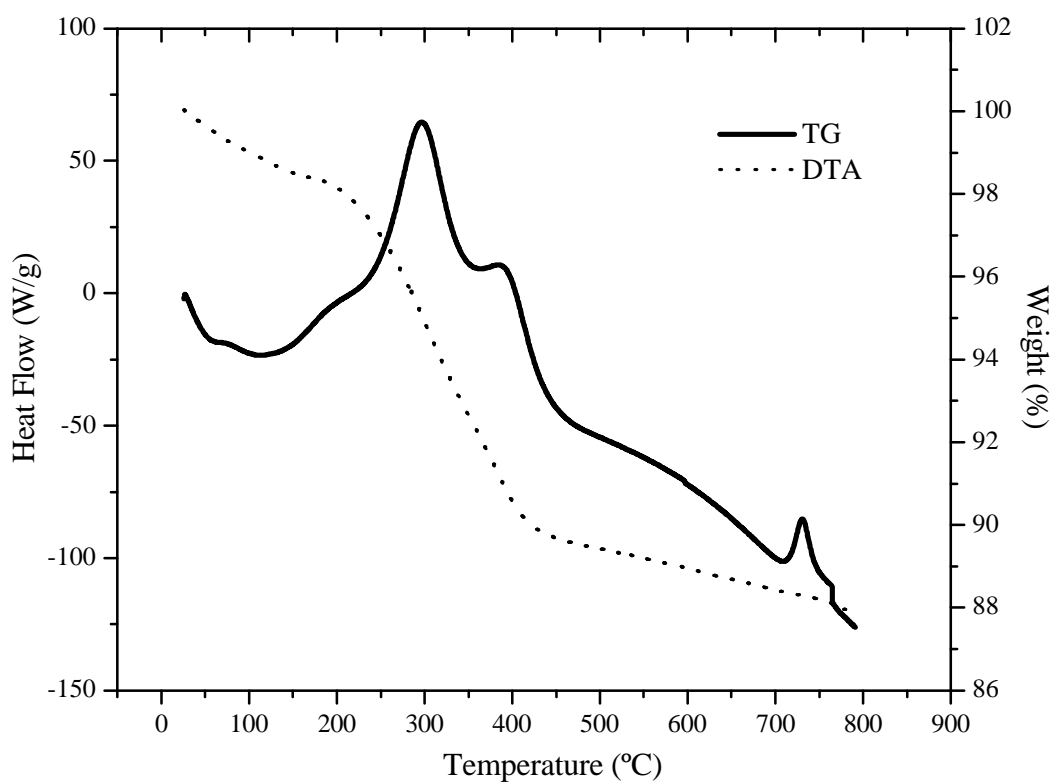


Figure 6. DTA-TG curves for magnetite nanoparticles modified with ionic liquid **IL-C₁₀**.

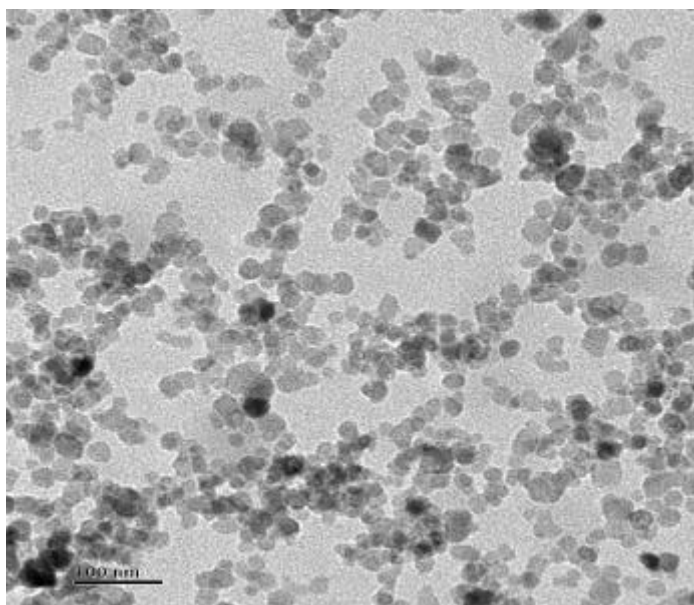


Figure 7. TEM-image for magnetite nanoparticles modified with ionic liquid **IL-C₈**. Scale bar is 100 nm.

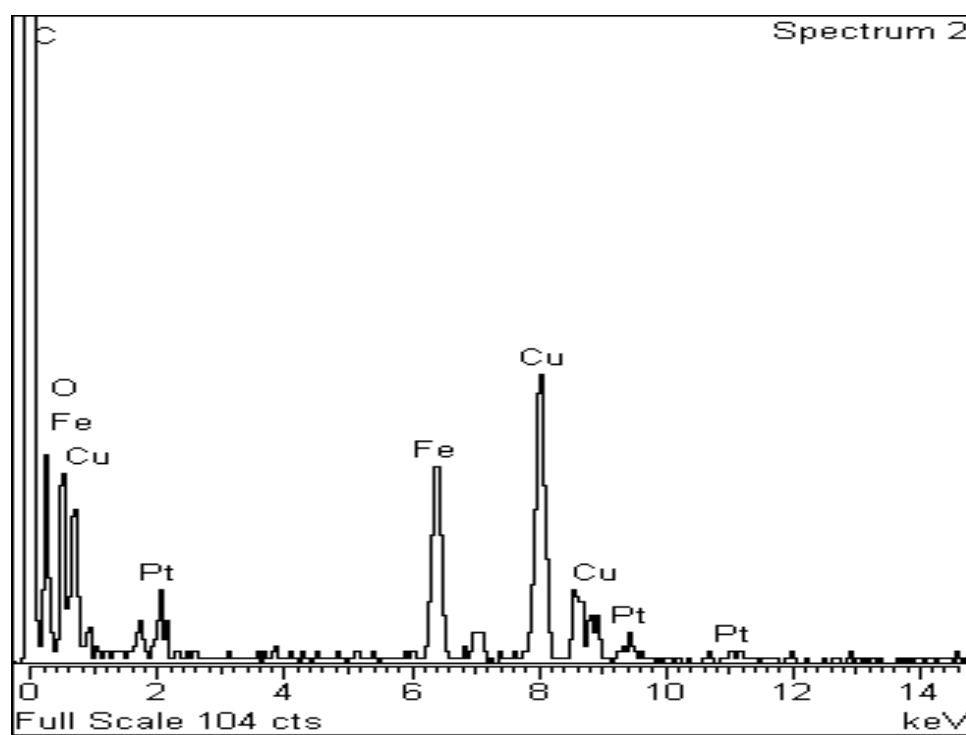


Figure 8. EDX spectrum of platinum nanoparticles supported on magnetite nanoparticles.