

Supporting Information Available:

**Facile assembly of hierarchical core@shell Fe_3O_4 @CuMgAl-LDH
(layered double hydroxide) magnetic nanocatalyst for the
hydroxylation of phenol**

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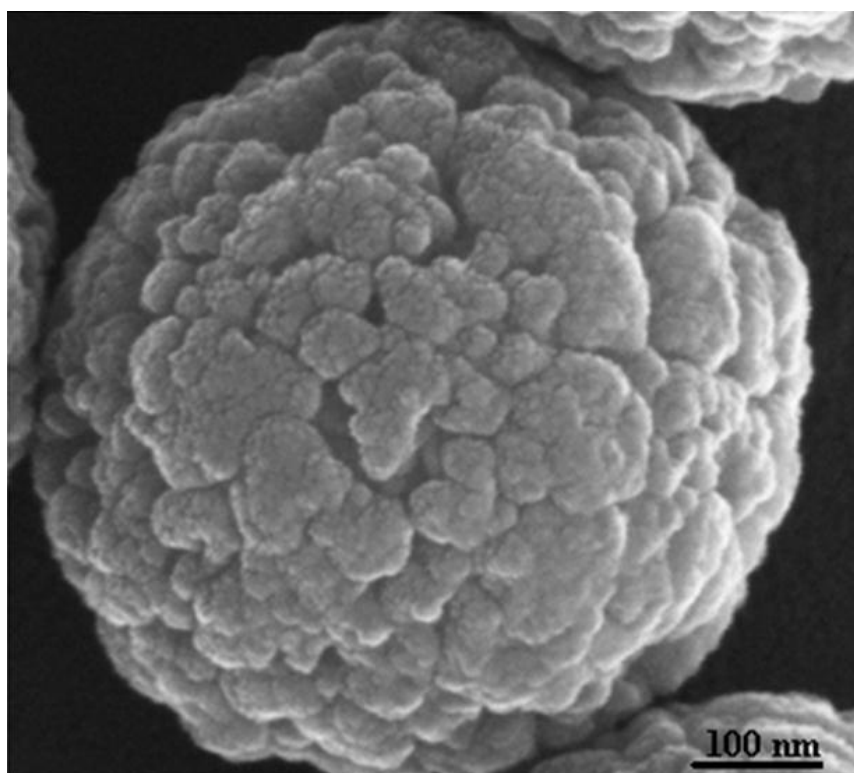


Figure S1 Magnified SEM image of the Fe_3O_4 spherical particles.

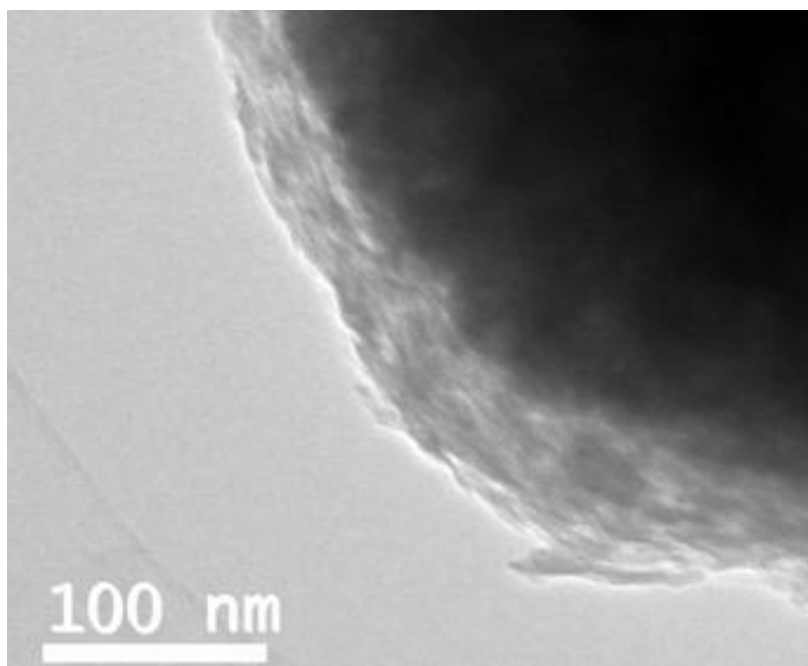


Figure S2 Enlarged TEM image of left below inset in Fig. 2d for $\text{Fe}_3\text{O}_4@\text{CuMgAl-1}$.

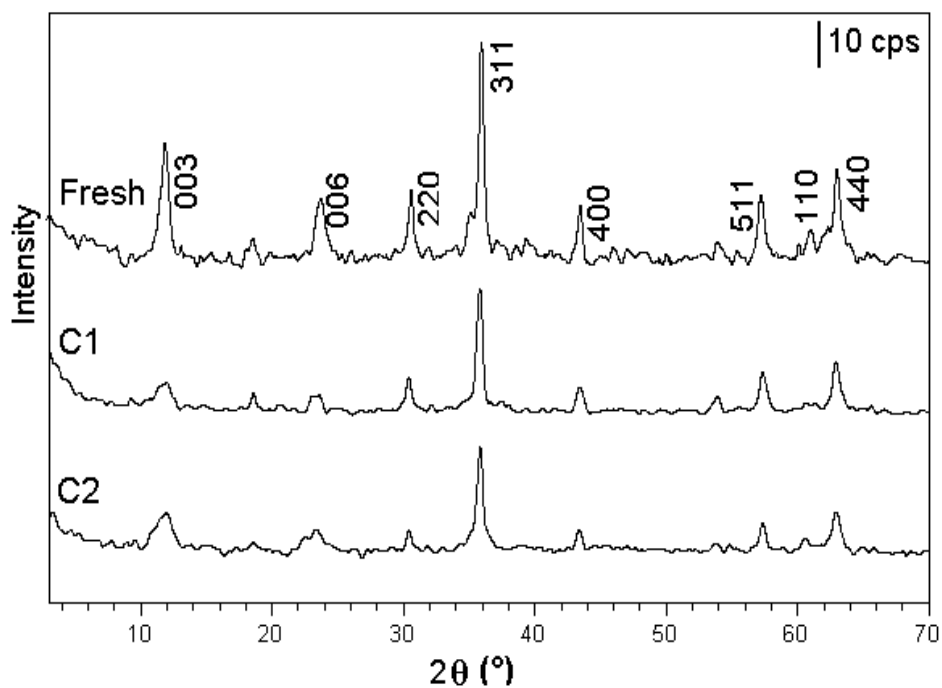


Figure S3 XRD patterns of the fresh and reclaimed catalysts $\text{Fe}_3\text{O}_4@\text{CuMgAl-1c1}$ and $\text{Fe}_3\text{O}_4@\text{CuMgAl-1c2}$.

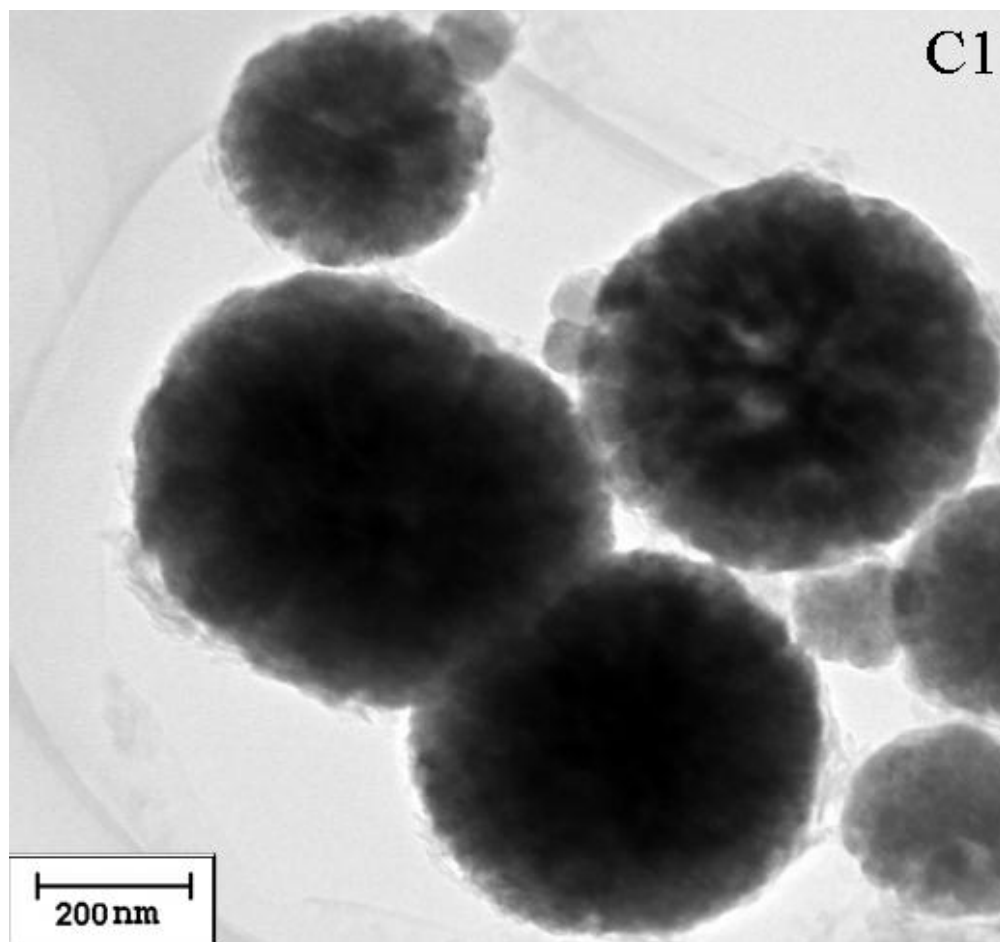


Figure S4 TEM image of the reclaimed catalyst $\text{Fe}_3\text{O}_4@ \text{CuMgAl-1c1}$.