

Supporting information

**Highly selective liquid phase aerobic oxidation of vanillyl alcohol to vanillin
on cobalt oxide (Co₃O₄) nanoparticles**

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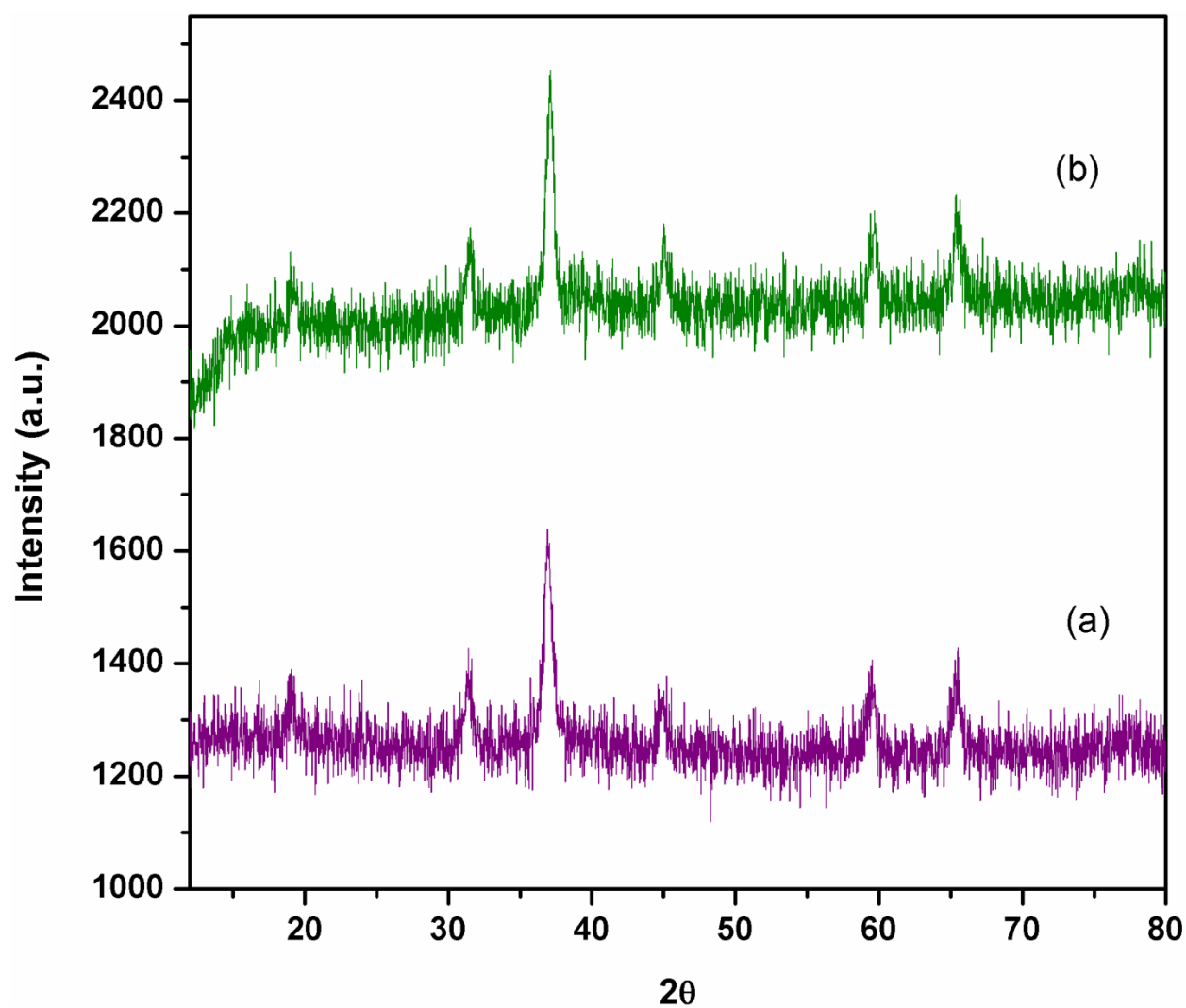


Fig. S1 XRD patterns of: (a) fresh Co₃O₄ nanoparticles (b) after 3rd times reused Co₃O₄ nanoparticles.

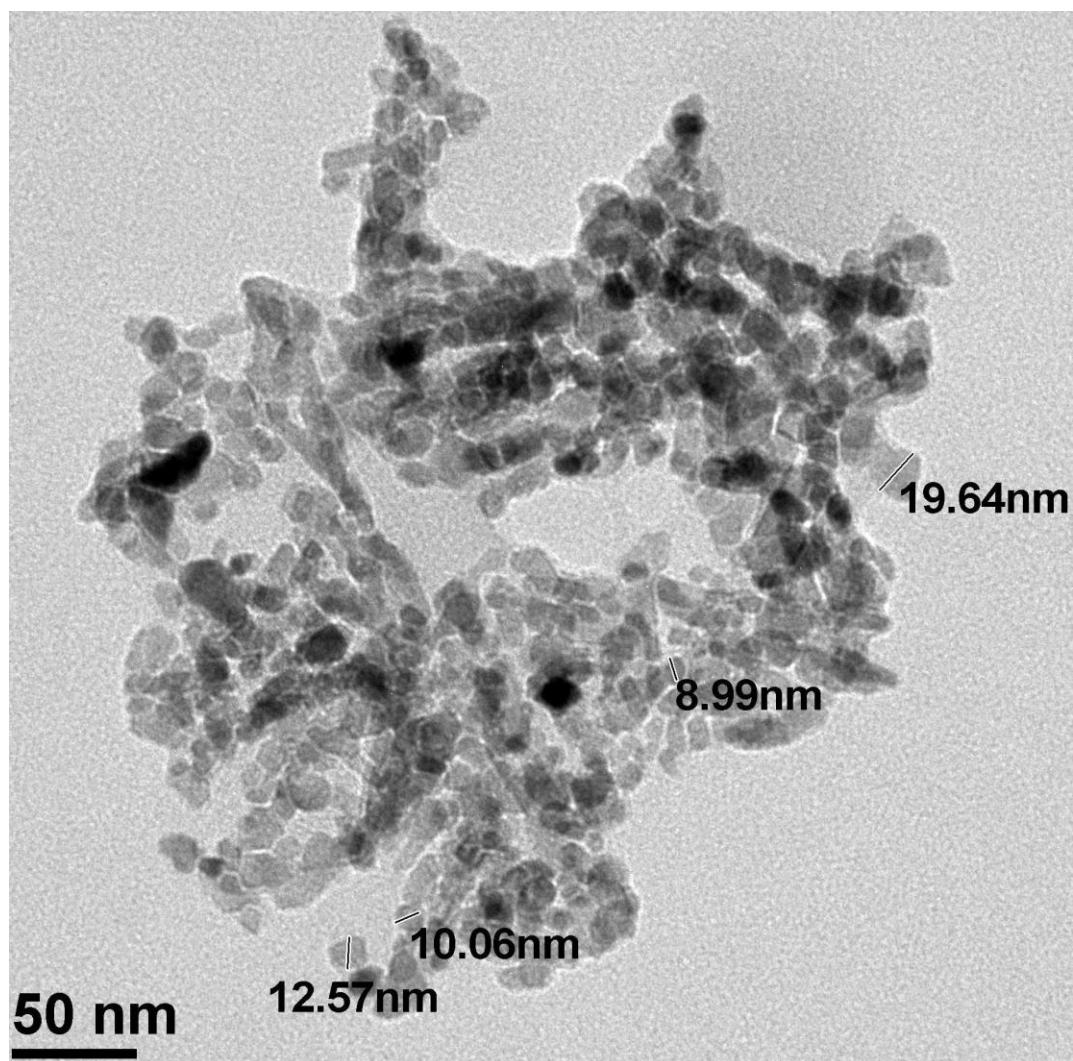


Fig. S2 HR-TEM image of 3rd times reused Co₃O₄ nanoparticles.

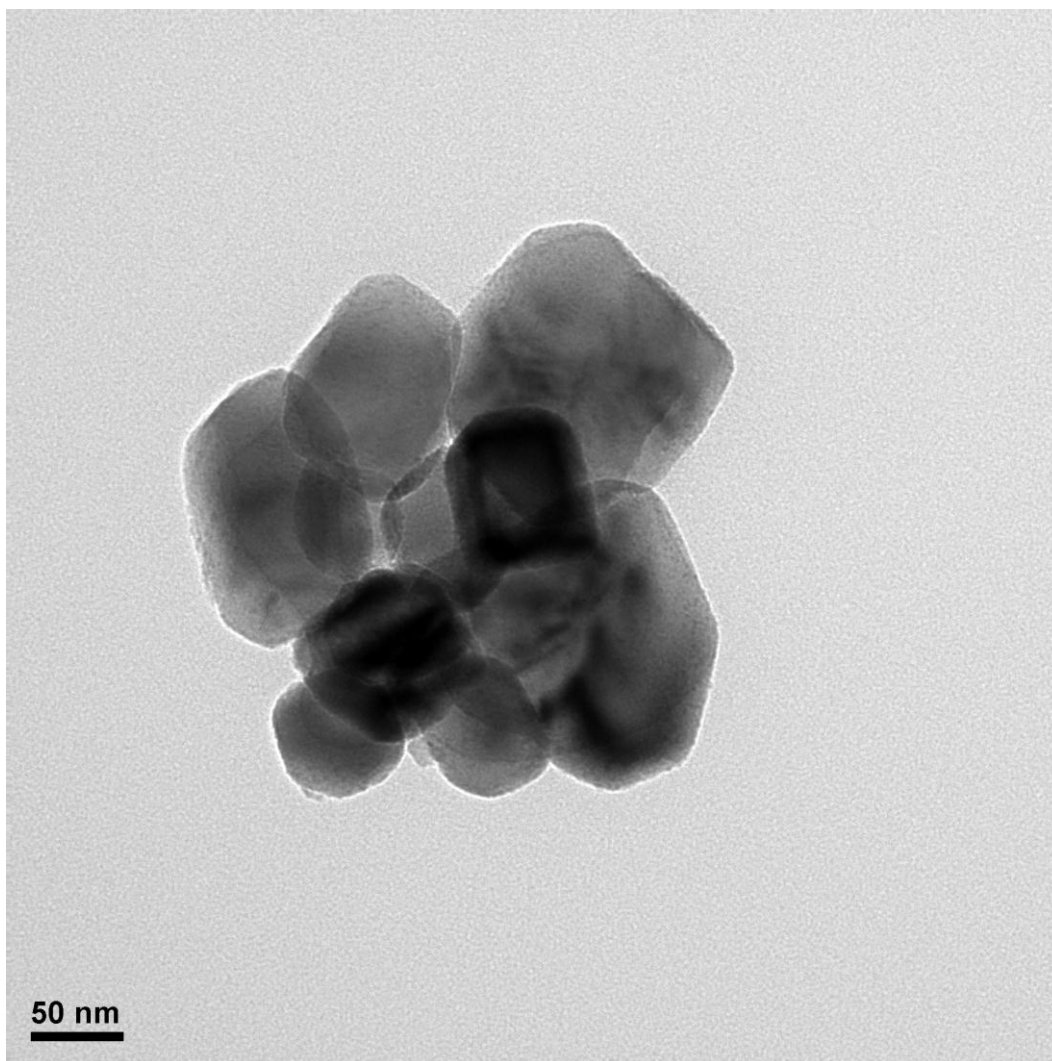


Fig. S3 HR-TEM image of commercial Co_3O_4 sample

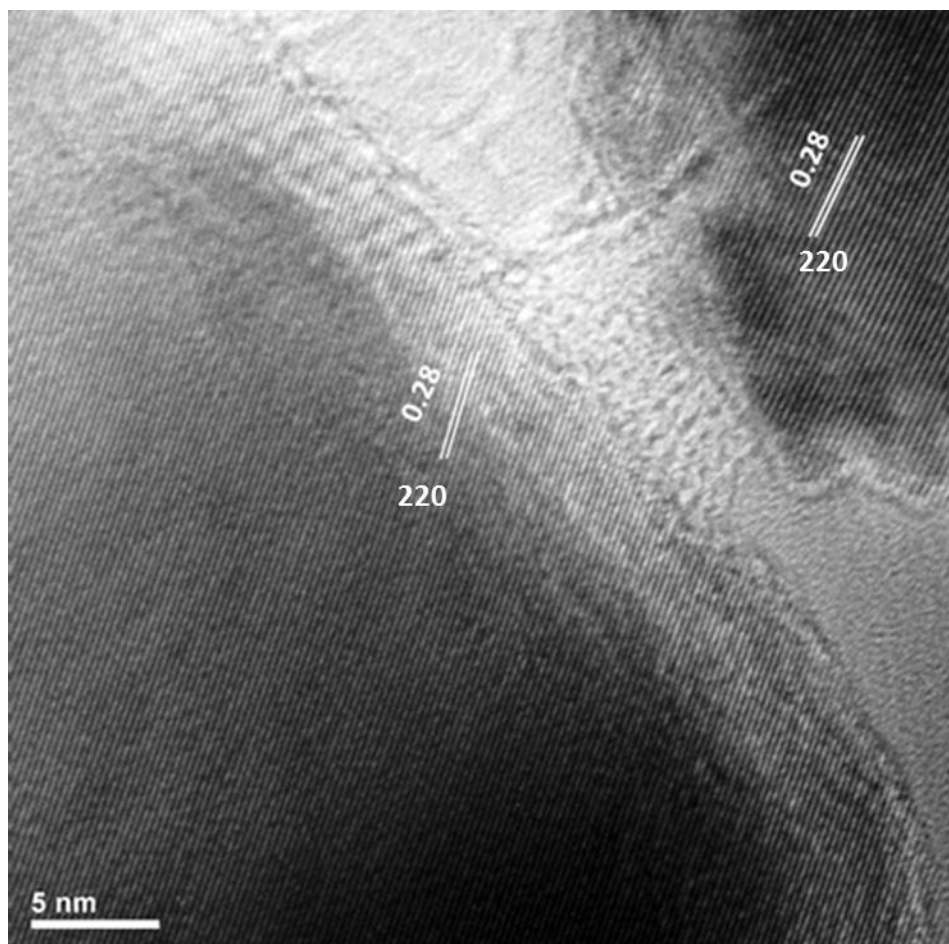


Fig. S4 HR-TEM image of commercial Co_3O_4 sample.