

Supporting Information

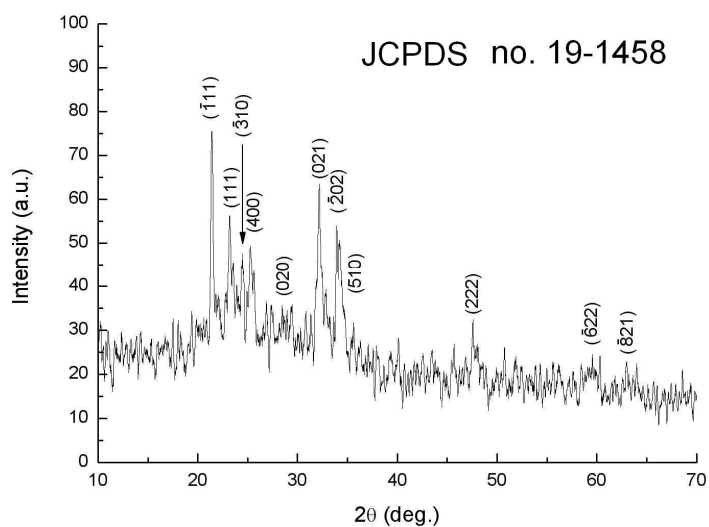


Figure S1 XRD pattern of the precipitates when Na_2CO_3 was added.

Note: All of the diffraction peaks are consistent with the basis zinc carbonate $\text{Zn}_5(\text{CO}_3)_2(\text{OH})_6$ structure (JCPDS no. 19-1458).

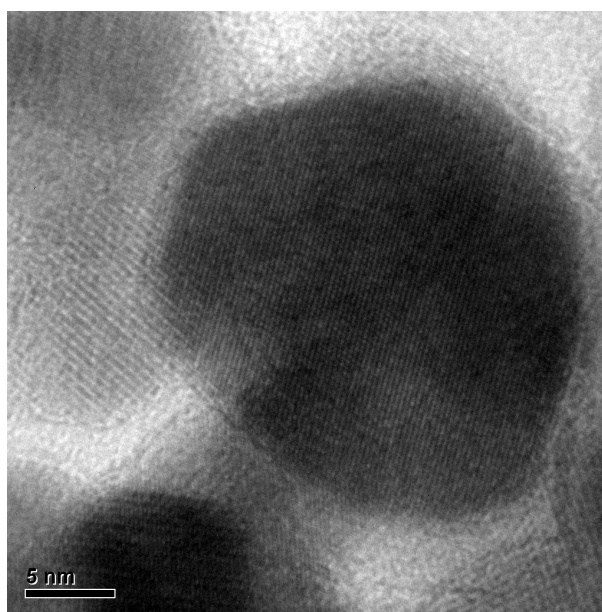


Figure S2 HRTEM image of Fe_3O_4 fluid

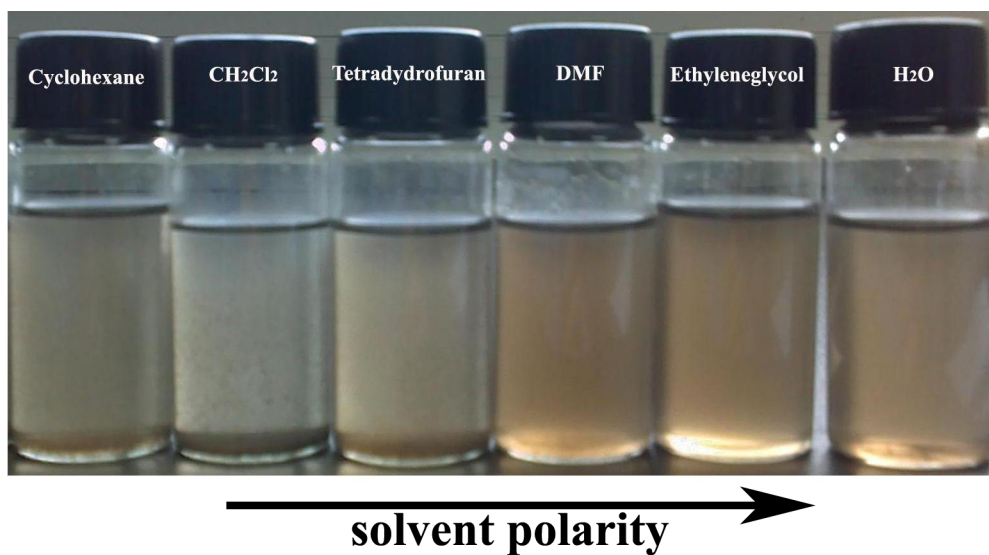


Figure S3 Visual image of synthesized Fe₃O₄ nanoparticles dispersed in different organic and aqueous solution, the solid content is ~ 0.1 wt %, the Fe₃O₄ nanoparticles are prepared in ethanol.