

# Synthesis, Characterization and Photocatalytic Activity of Magnetically Separable Hexagonal Ni/ZnO Nanostructure

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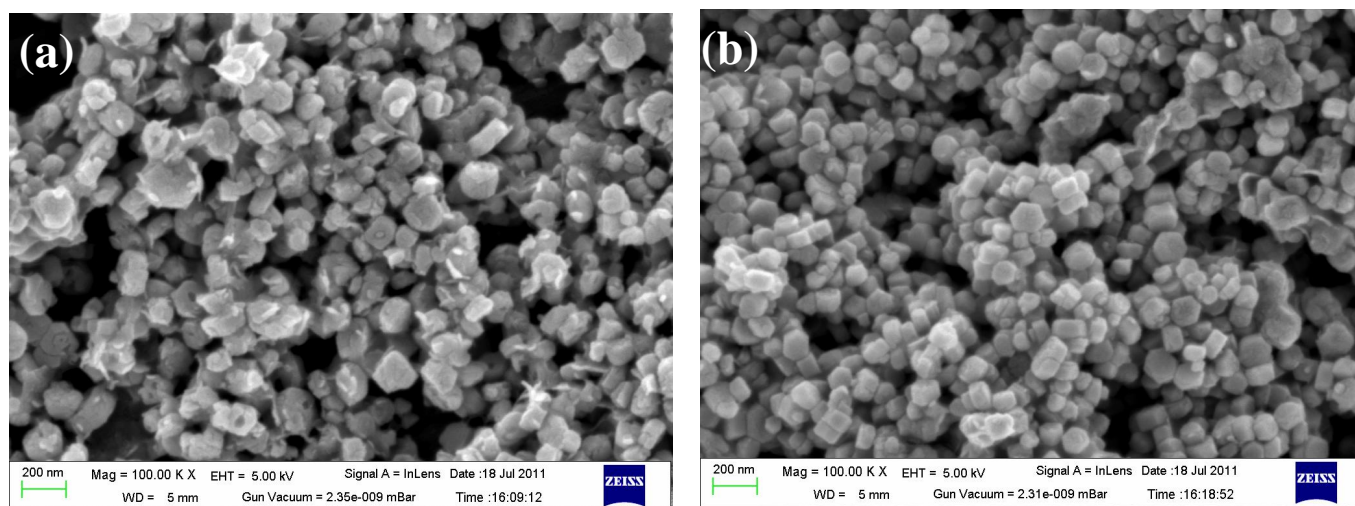
## Caption to the Electronic Supplementary Information

**Fig. S1** Ni/ZnO hybrid nanostructure prepared using (A) 0.195 and (B) 0.25 M  $[\text{Zn}^{2+}]$  at 90 ° C.

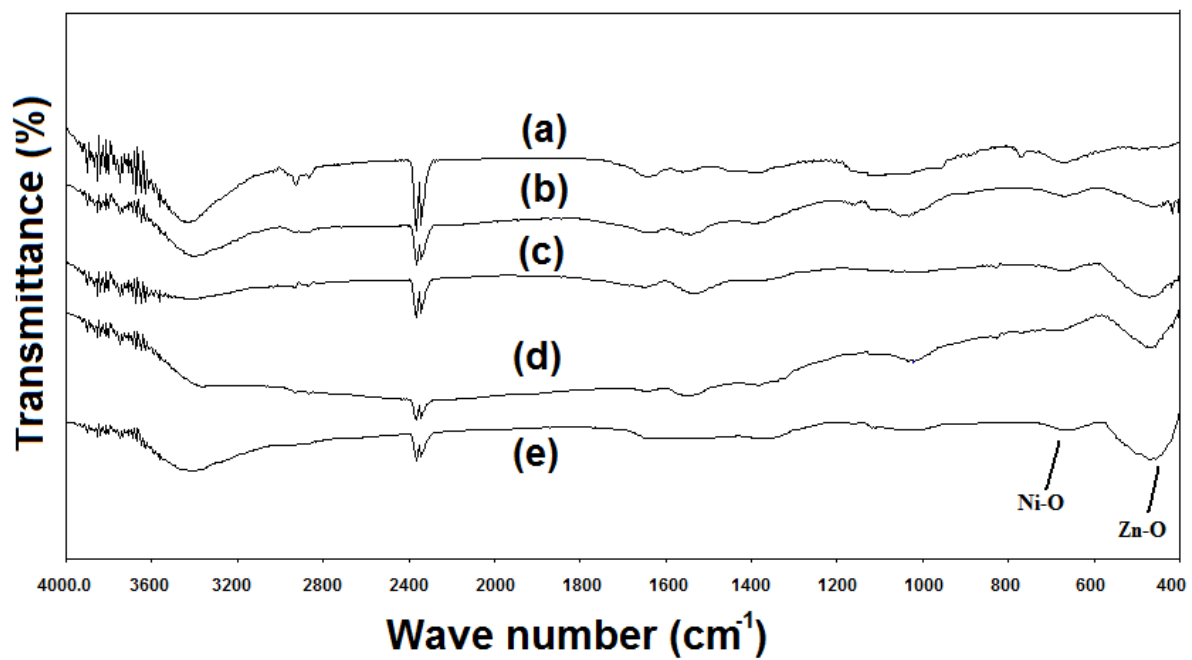
**Fig. S2** FTIR spectra nickel nanoparticles prepared at 140 °C (a), and Ni/ZnO hybrid  
nanostructure prepared using (b) 0.063, (c) 0.125, (d) 0.195 and (e) 0.25 M  $[\text{Zn}^{2+}]$ .

**Fig. S3** Raman spectra of Ni/ZnO nanostructure prepared using (a) 0.063, (b) 0.125, (c) 0.195 and  
(d) 0.25 M  $[\text{Zn}^{2+}]$ .

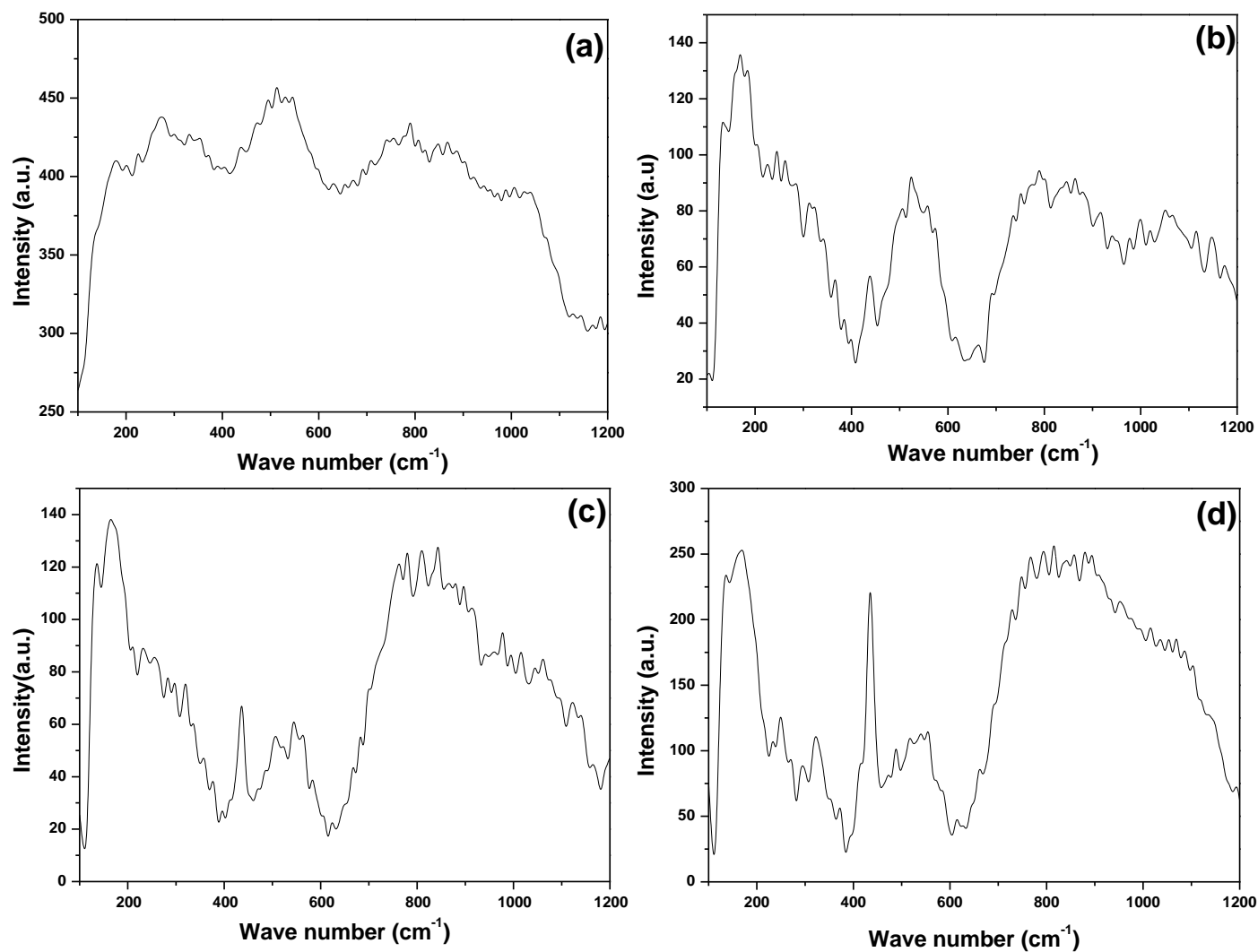
**Fig S4** Room temperature PL spectra of (a) ZnO and (b) Ni/ZnO nanostructure prepared  
using 0.25 M  $[\text{Zn}^{2+}]$ .



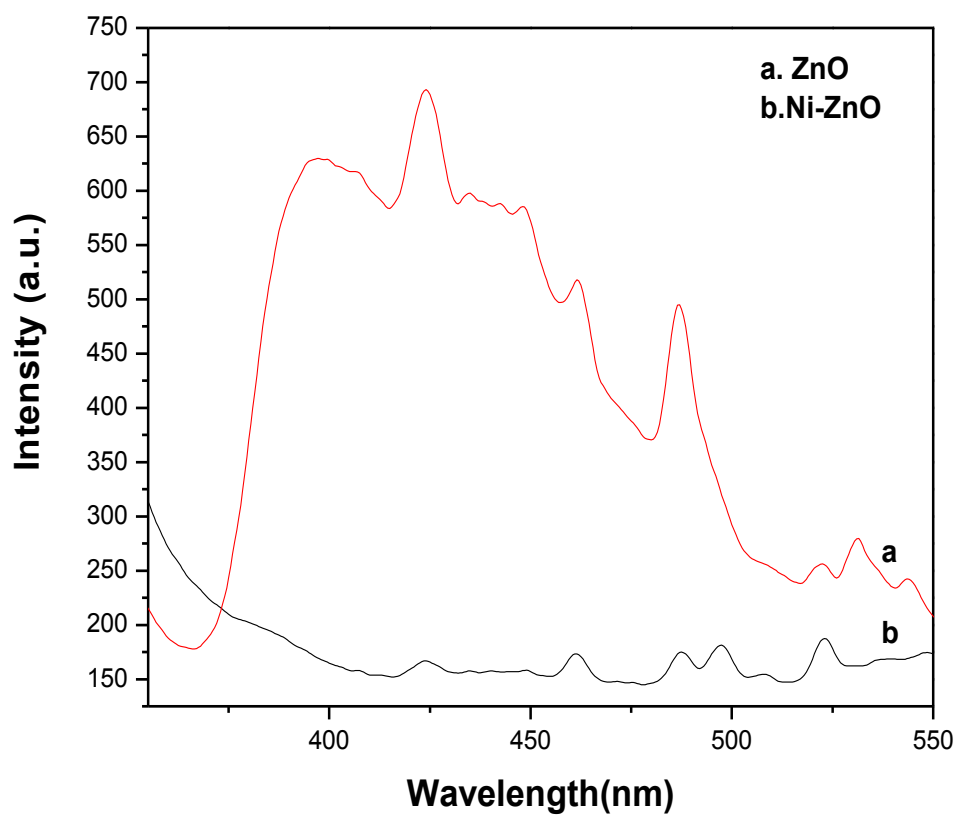
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