

*RSC Advances*

**Hydrophilic ionic liquid-assisted control of size and morphology of ZnO nanoparticles prepared by chemical precipitation method<sup>†</sup>**

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**Fig. S1** EDX spectrum of ZnO NPs.

**Fig. S2** Structure of [EMIM][MeSO<sub>4</sub>]

**Fig. S3** Zeta potential distribution curve of ZnO NPs in the absence of ionic liquid.

**Fig. S4** Zeta potential distribution curve of ZnO NPs in 5.0% IL(v/v).

**Fig. S5** Size distribution curve for [EMIM][MeSO<sub>4</sub>].

**Fig. S6** SEM images (filament technique) of ZnO NPs synthesized in absence of [EMIM][MeSO<sub>4</sub>] (a) and in presence of (b) 0.1% (c) 1.5% (d) 2% (e) 3.5% (f) 5% (v/v) [EMIM][MeSO<sub>4</sub>]

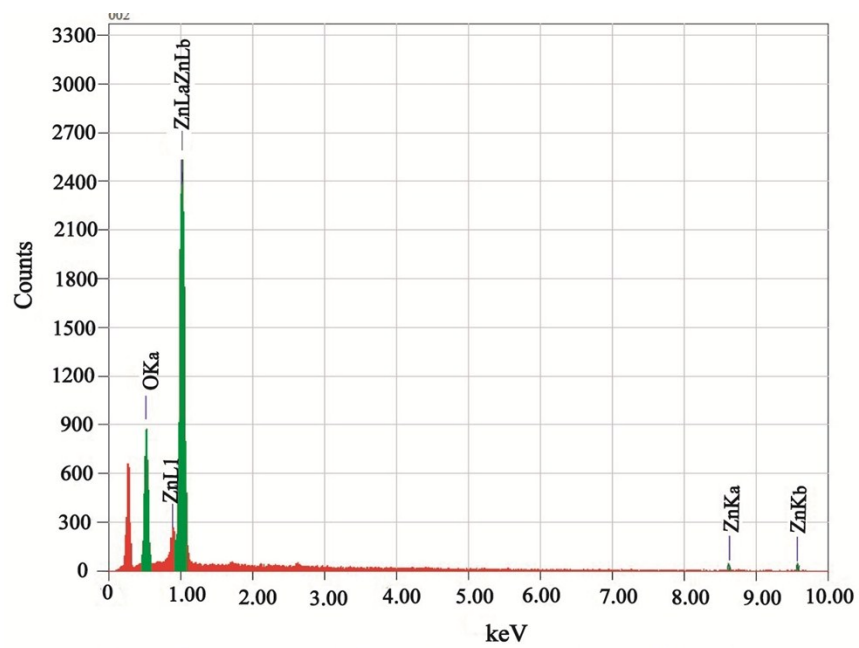


Fig. S1 EDX spectrum of ZnO NPs.

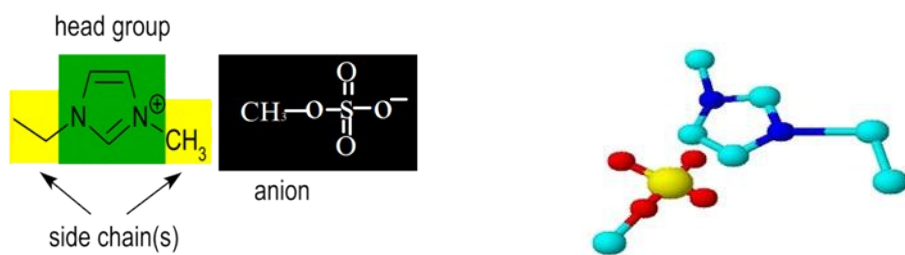
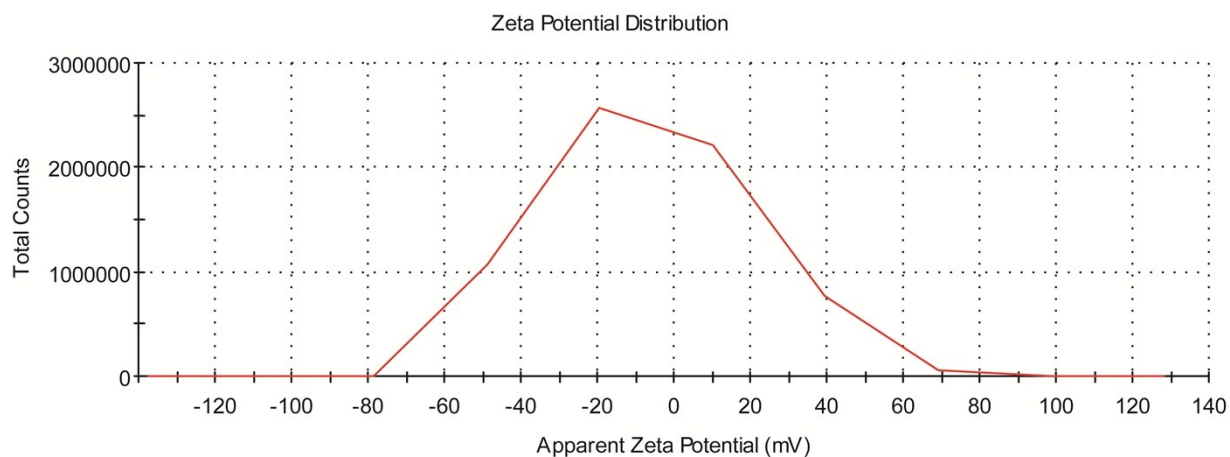
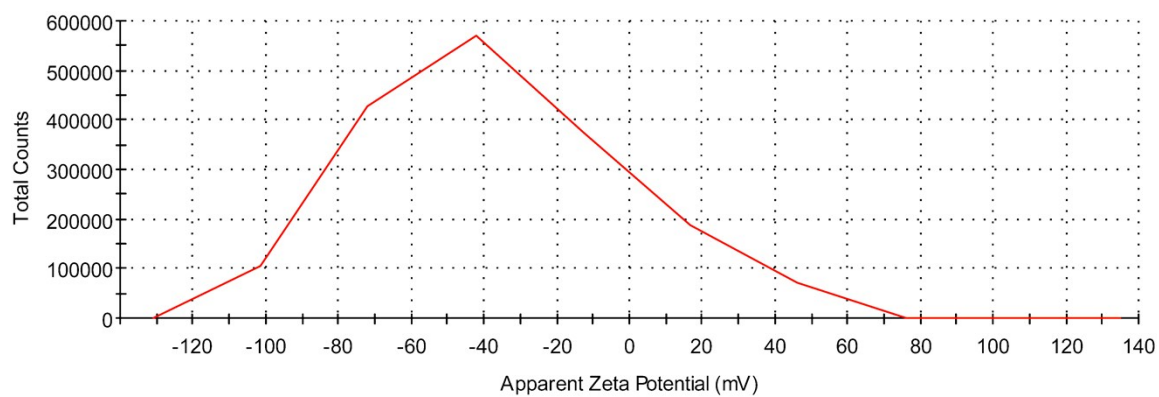


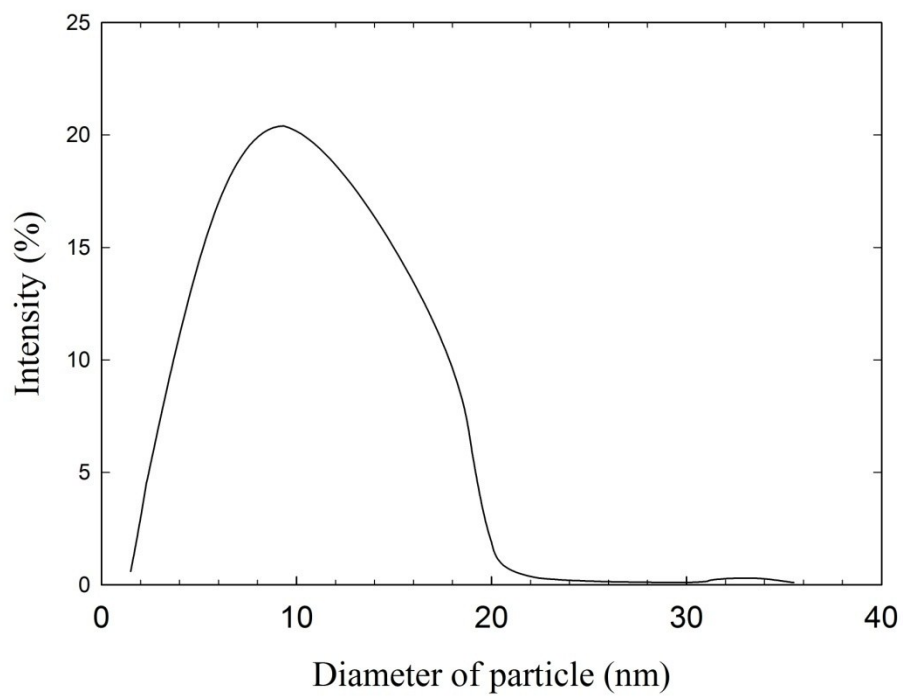
Fig. S2 Structure of [EMIM][ MeSO<sub>4</sub>].



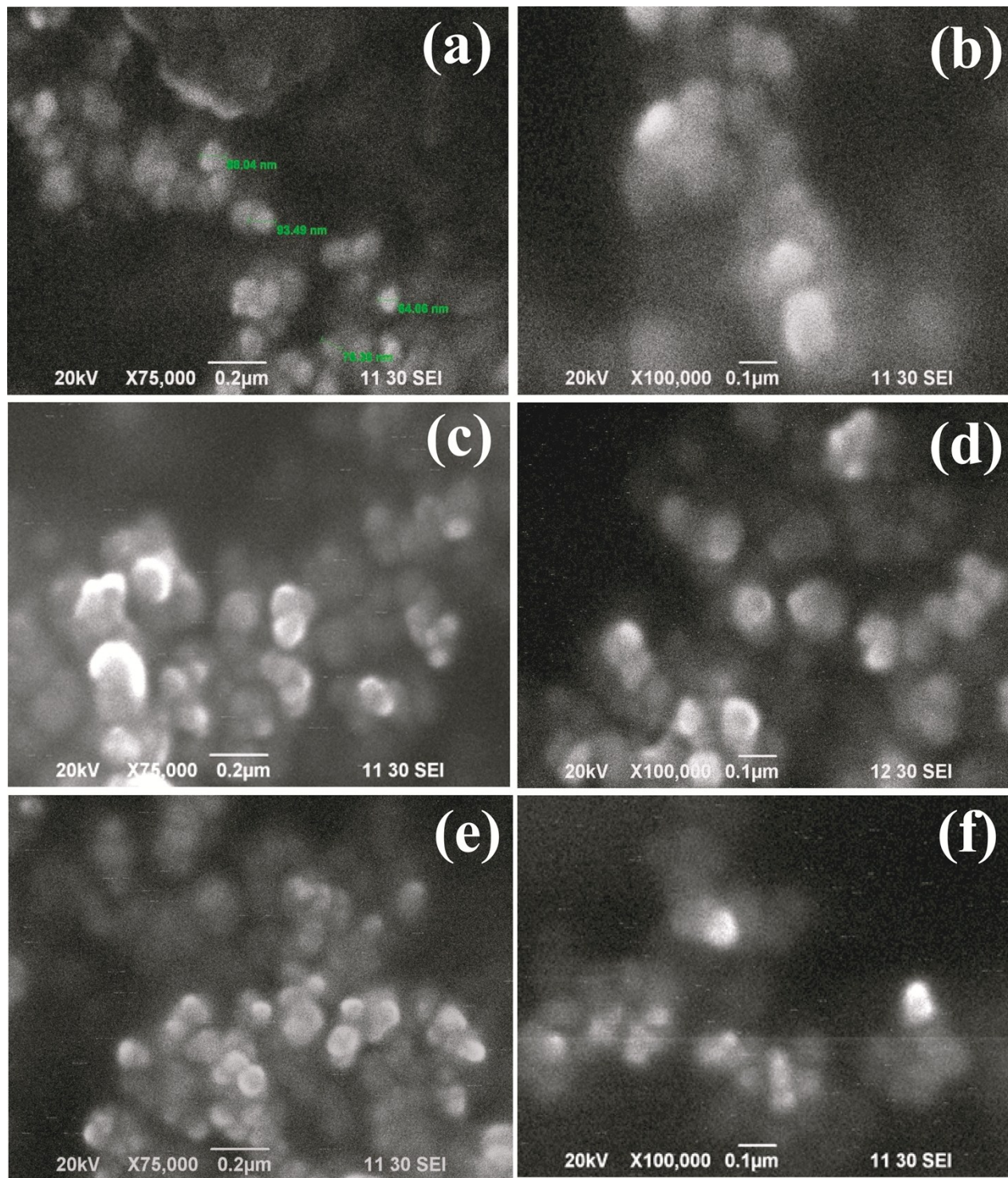
**Fig. S3** Zeta potential distribution curve of ZnO NPs in absence of ionic liquid.



**Fig. S4** Zeta potential distribution curve of ZnO NPs in 5% IL(v/v).



**Fig. S5** Size distribution curve for [EMIM][MeSO<sub>4</sub>].



**Fig. S6** SEM images of ZnO NPs synthesized in absence of [EMIM][MeSO<sub>4</sub>] (a) and in presence of (b) 0.1% (c) 1.5% (d) 2% (e) 3.5% (f) 5% (v/v) [EMIM][MeSO<sub>4</sub>].