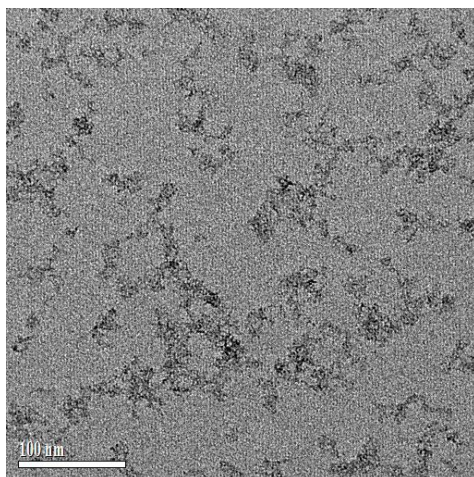
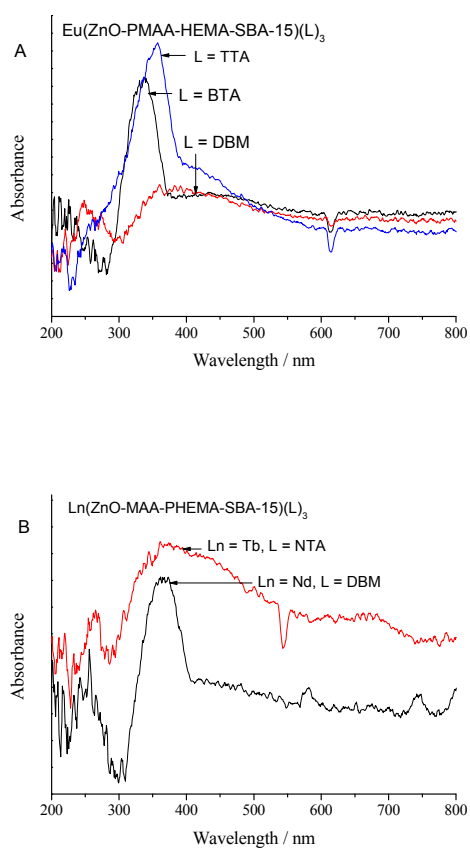


Supporting information



**Figure S1** The selected TEM image of ZnO-MAA nanoparticles



**Figure S2** The ultraviolet-visible diffuse reflectance spectra of hybrid mesoporous materials: (A) europium systems, (B) terbium and neodymium system