**Fig. S1** SEM images of as-prepared samples prepared using different solvent in the volume ratio: (a) EG: Dipropylamine =5:5; (b) EG:EA=5:5; (c) EG:H₂O = 5:5; (d) pure water.

**Fig. S2** (a) SEM image; (b) XRD pattern; (c) TEM; (d) HRTEM image of sample obtained by the one-step method.