

Supporting informations

Pure inorganic D-A type polyoxometalate/reduced graphene oxide nanocomposite for the photoanode of Dye-sensitized Solar Cells†

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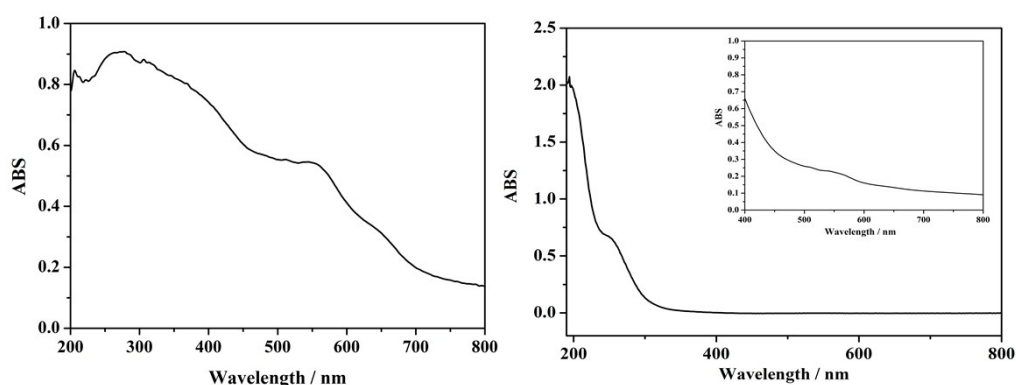


Fig.S1 UV/Vis reflection spectra of SiW_9Co_3 : (a) in the solid state and (b) in the solution

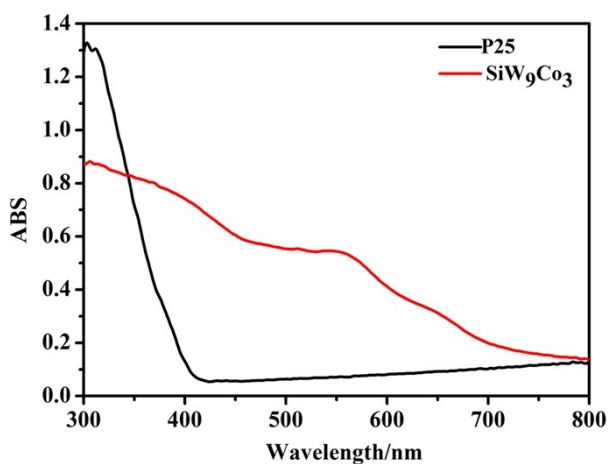


Fig.S2 UV/Vis reflection spectra of P25 and SiW_9Co_3 in the solid state

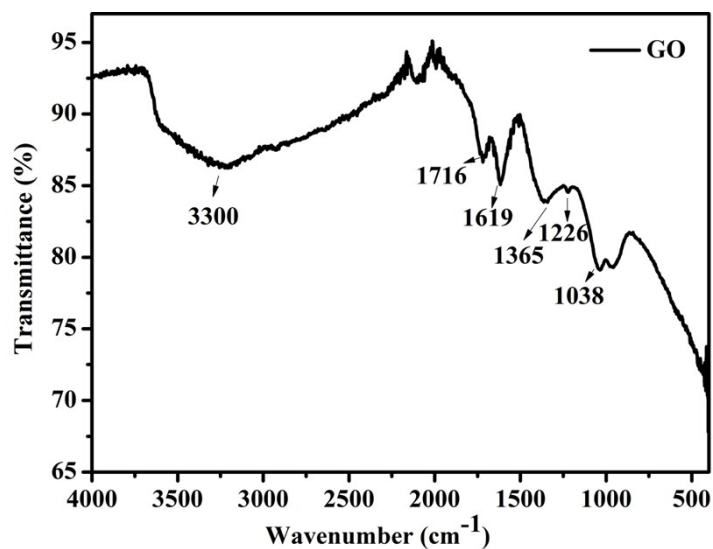


Fig. S3 FTIR spectrum of GO. The O-H stretching at 3300 cm⁻¹, the C=O stretching at 1716 cm⁻¹, the peak at 1619 cm⁻¹ is the skeletal vibrations of remnant sp² species, the O-H deformation at 1365 cm⁻¹, the C-OH stretching at 1226 cm⁻¹ and the C-O-C stretching at 1038 cm⁻¹.

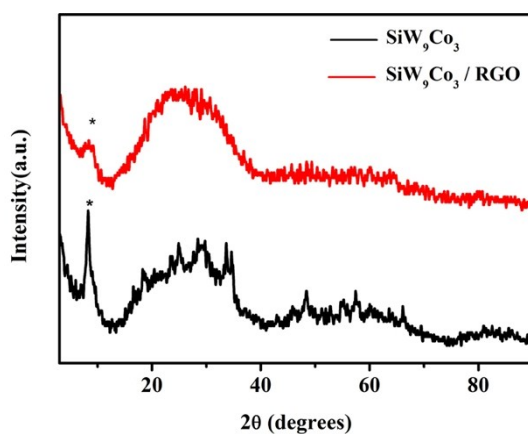


Fig.S4 XRD patterns of SiW₉Co₃ and SiW₉Co₃/RGO

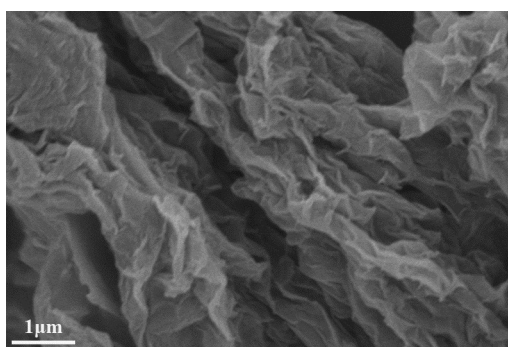


Fig.S5 The SEM image of RGO

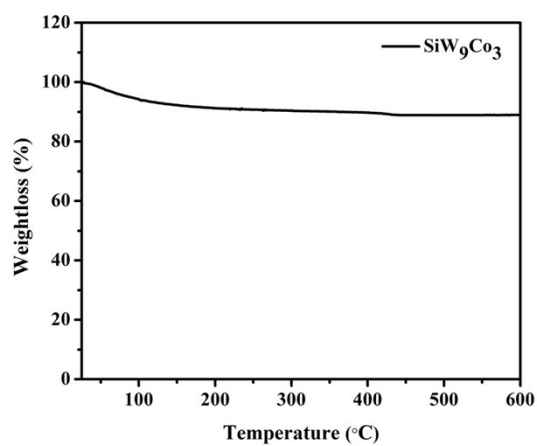


Fig. S6 TG curve of SiW_9Co_3

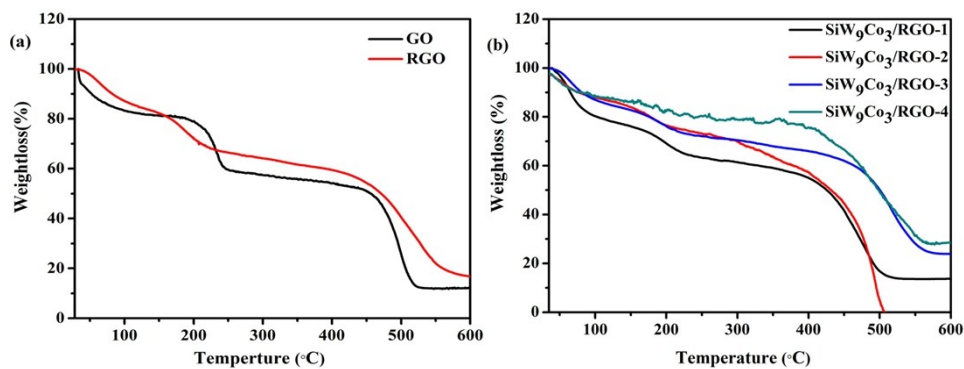


Fig.S7 (a) TG curves of GO and RGO, (b) $\text{SiW}_9\text{Co}_3/\text{RGO}$ -1, $\text{SiW}_9\text{Co}_3/\text{RGO}$ -2, $\text{SiW}_9\text{Co}_3/\text{RGO}$ -3 and $\text{SiW}_9\text{Co}_3/\text{RGO}$ -4