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 SiW₉Co₃: (a) in the solid state and (b) in the solution

Fig.S2 UV/Vis reflection spectra of P25 and SiW₉Co₃ 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$_9$Co$_3$

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