Electronic Supplementary Material (ESI) for Catalysis Science & Technology

ELECTRONIC SUPPORTING INFORMATION

An efficient oxidative desulfurization process using Terbium-polyoxometalate@MIL-101(Cr)

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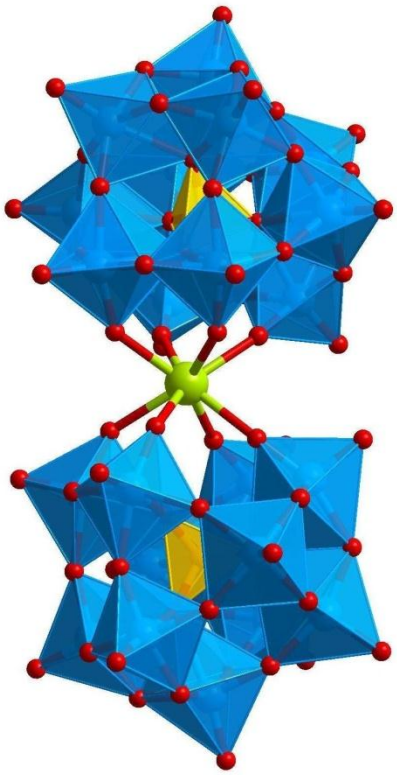

Figure S1. The structure of the sandwich type terbium-phosphotungstate anion, $[Tb(PW_{11}O_{39})_2]^{11-}$ (Color scheme: Tb, green; W, blue; P, yellow and O, red).

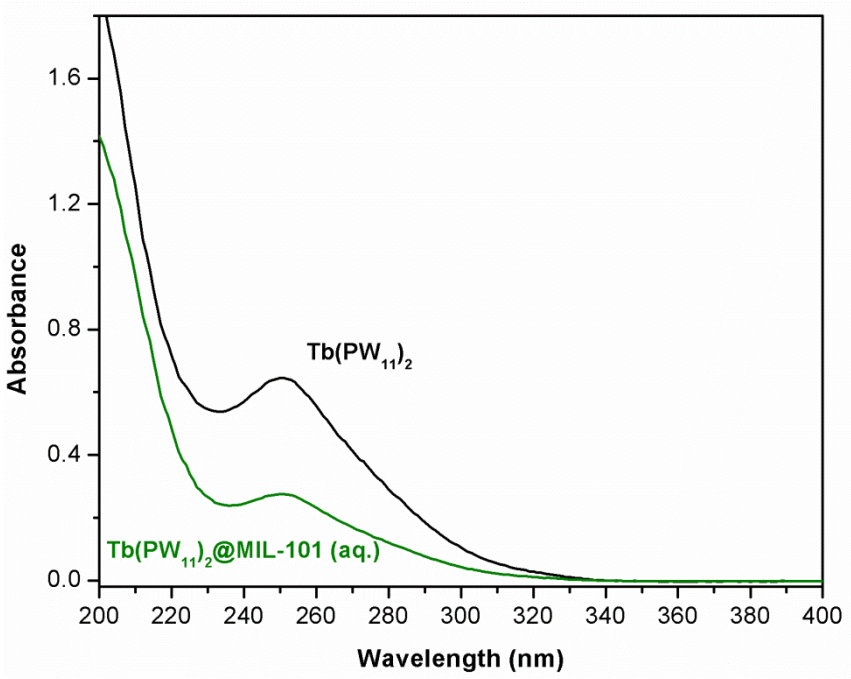

Figure S2. UV-Vis spectra of the $KTb(PW_{11})_2$ solution before incorporation (a) and after incorporation (b) in to MIL-101(Cr) structure, after 24 h.

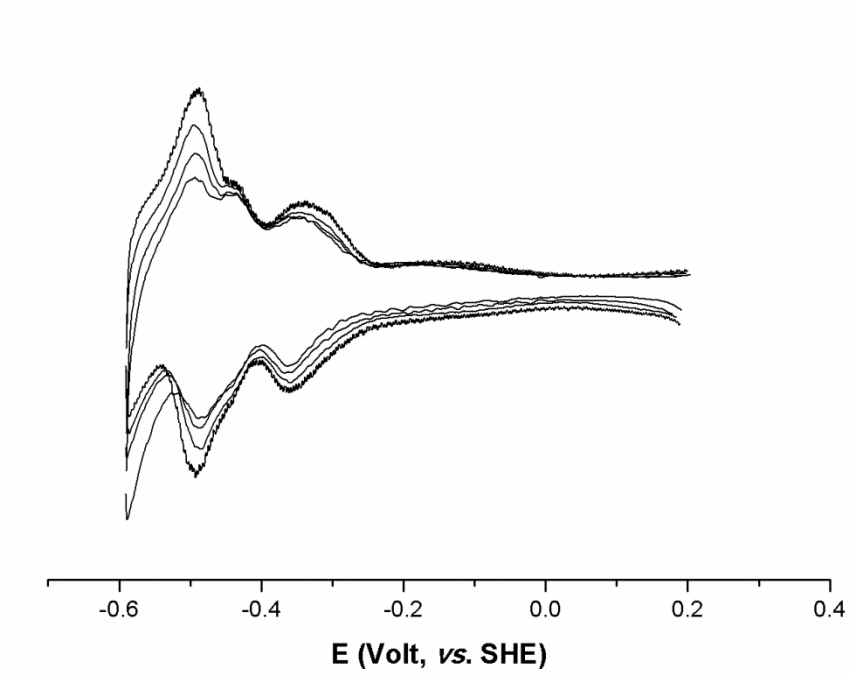

Figure S1. Semi-derivative deconvolution of the cyclic voltammograms of $Tb(PW_{11})_2$ at different scan rates (20, 50, 100 and 200 mV/s).

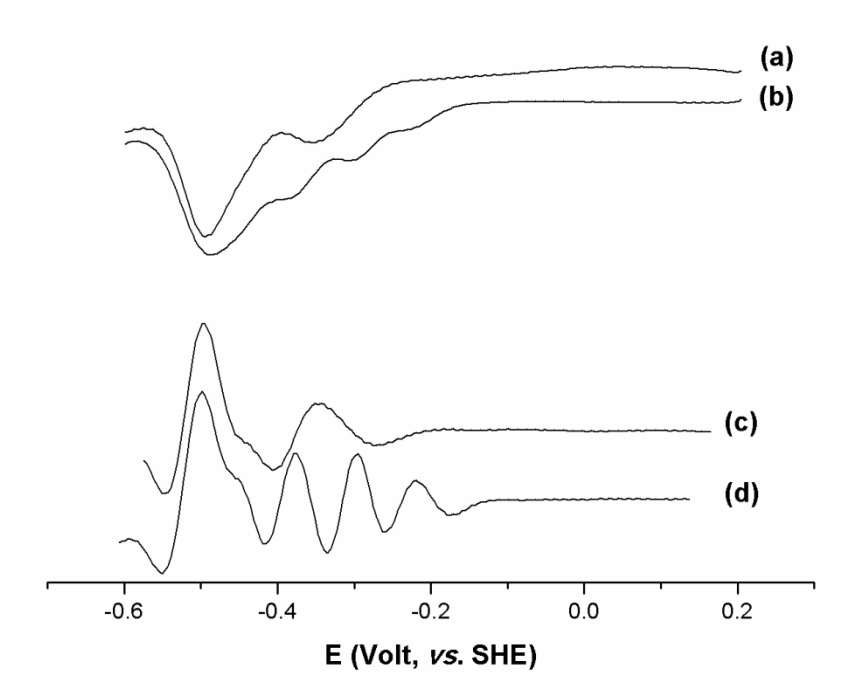

Figure S2. Osteryoung square-wave voltammograms of $Tb(PW_{11})_2$ (a) and its second derivative (c) and of $Tb(PW_{11})_2$@MIL-101 (b) and its second derivative (d). Scan rate: 100 m V/s.