

Supporting Information

Non-innocent weak coordinating character of organosulfonates assisted by hydrogen bonding in oriented silica films: an efficient approach for immobilizing cationic metal-transition complexes

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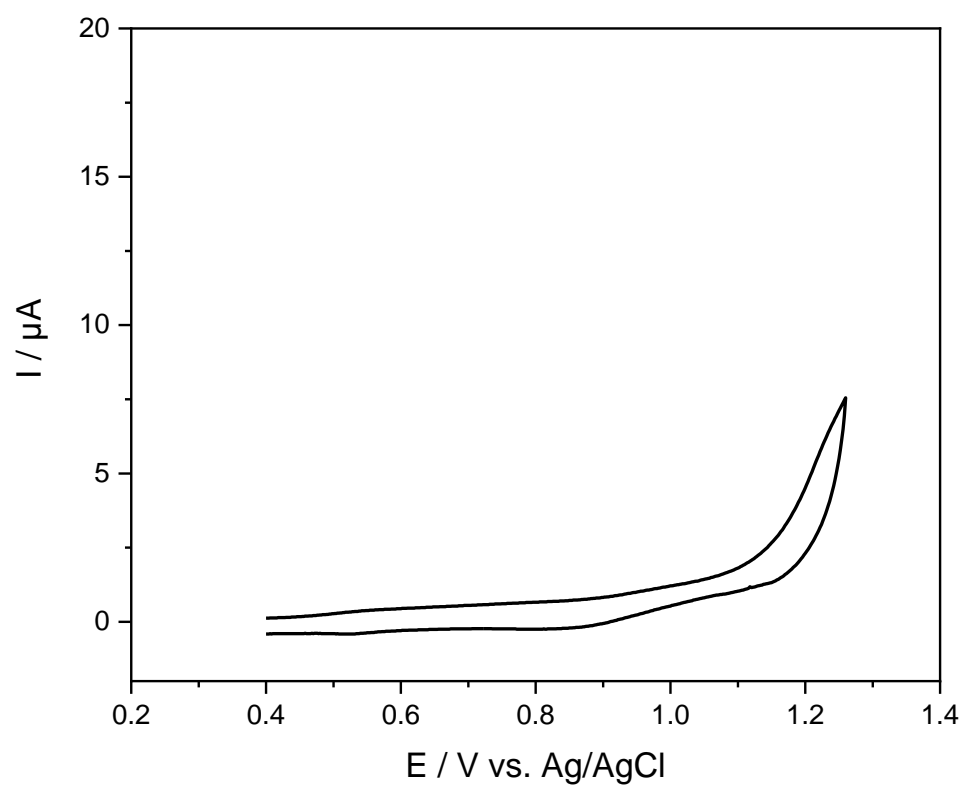


Figure S1. Cyclic voltammograms recorded in aqueous 0.1M NaNO_3 solution after impregnation of a silica film in 10 mM $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ solution for 2h. The silica film was prepared by EASA method from a solution containing 200 mM of hydrolyzed tetraethoxysilane, 64 mM CTAB and 0.1 M NaNO_3 .

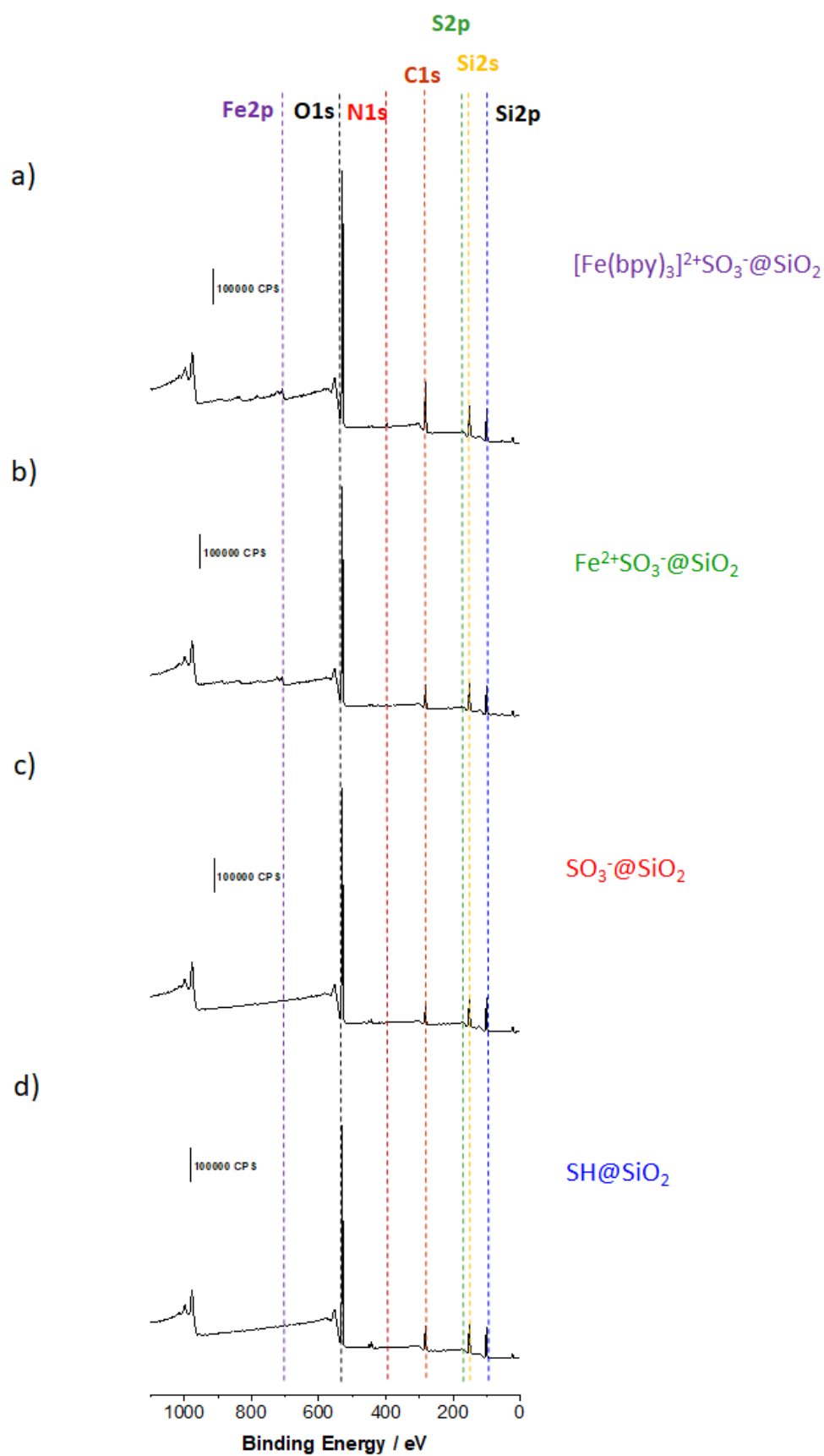


Figure S2. XPS survey spectra obtained for various functionalized silica films on ITO, respectively (a) $[\text{Fe}(\text{bpy})_3]^{2+}\text{SO}_3^-@ \text{SiO}_2$, (b) $\text{Fe}^{2+}\text{SO}_3^-@ \text{SiO}_2$, (c) $\text{SO}_3^-@ \text{SiO}_2$, and (d) $\text{SH}@ \text{SiO}_2$.