

## **TAILORING MIXED-VALENCE Co<sup>III</sup>/Fe<sup>II</sup> COMPLEXES FOR THEIR POTENTIAL USE AS SENSITIZERS IN Dye Sensitized Solar Cells.**

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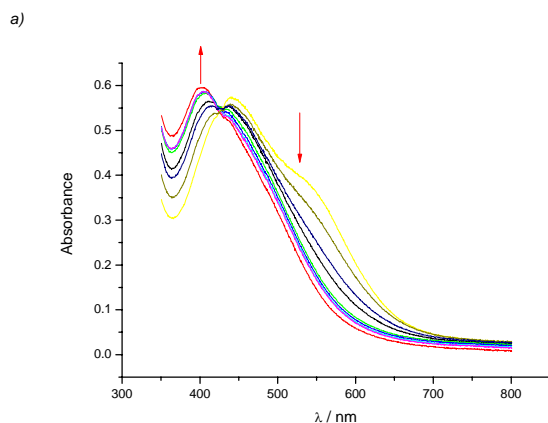
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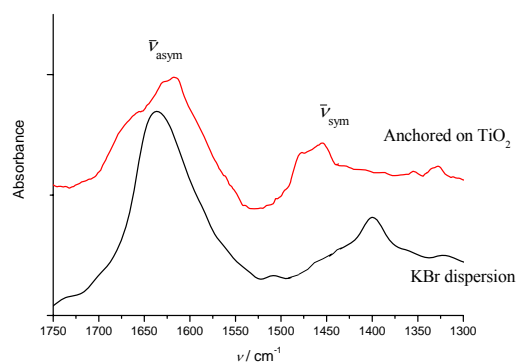
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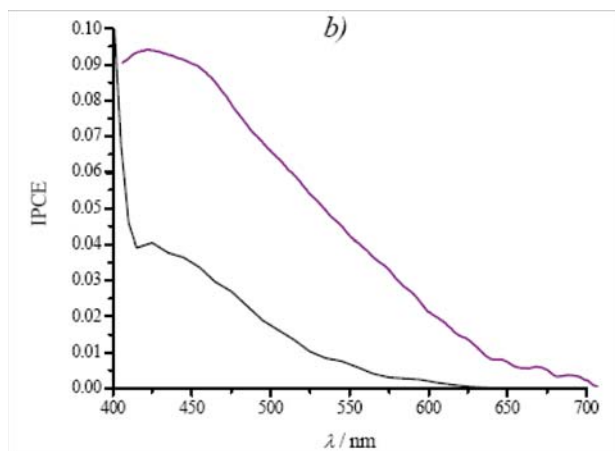
### **Supplementary information**



**Figure S1.-** UV-Vis spectral changes on addition of solid  $\text{Na}_2\text{S}_2\text{O}_8$  to a *ca.*  $5 \times 10^{-4}$  M solution in water of  $[\{trans\text{-}L_{14}\text{COOCo}^{\text{III}}(\mu\text{-NC})\}\text{Fe}^{\text{II}}(\text{CN})_5]^{2-}$ .



**Figure S2.-** IR spectra of the complex species  $[\{trans\text{-}L_{14}\text{COOCo}^{\text{III}}(\mu\text{-NC})\}\text{Fe}^{\text{II}}(\text{CN})_5]^{2-}$  dispersed in KBr and anchored of mesoporous  $\text{TiO}_2$ .



**Figure S3.-** Comparison of the IPCE curve of a complete solar cell build on mesoporous  $\text{TiO}_2$  electrodes using  $[\{trans\text{-}L_{14}\text{COOCo}^{\text{III}}(\mu\text{-NC})\}\text{Fe}^{\text{II}}(\text{CN})_5]^{2-}$  as sensitizer (below) and the visible spectrum of the sensitizer on the same surface (above).