SUPLEMENTARY MATERIAL TO

**The synthesis of transparent TiO2 photoelectrodes assisted by rheological agent (Triton X-100, PVP and F-127) for dye sensitized solar cells.**

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Fig. S-1**.** Infrared spectra of the TiO2 powders in the presence of Triton (a), PVP (b) and F-127 (c) at 500° C for 60 minutes.



Fig.S-2**.** (αhυ)0.5 versus photon energy (hυ) for indirect band gap of Triton and PVP assisted TiO2 films.



Fig. S-3**.** Evolution of the density and porosity of the TiO2 films as a function of the molar ratios of the RAs: (a) Triton, (b) PVP, (c) F-127.



Fig. S-4. Band energy diagram indicating the energy levels and the process that describe the electron injection from the dye to the conduction band of TiO2

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