

Supporting information

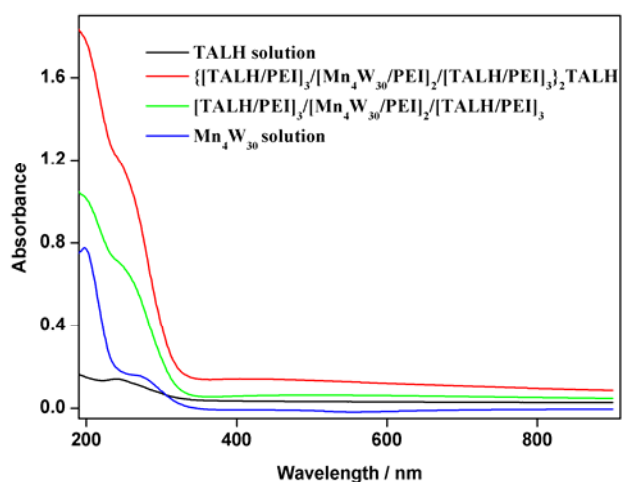


Fig. 1 UV spectrum of TALH solution, Mn₄W₃₀ solution, [TALH/PEI]₃/[Mn₄W₃₀/PEI]₂/[TALH/PEI]₃ films and {[TALH/PEI]₃/[Mn₄W₃₀/PEI]₂/[TALH/PEI]₃}₂TALH films.

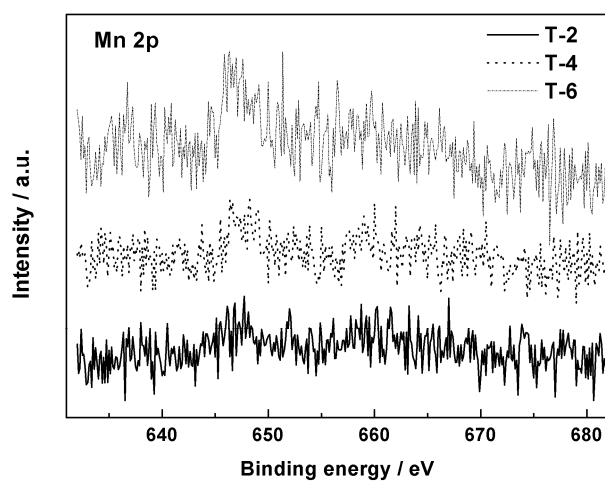


Fig. 2 XPS spectrums of Mn 2p in TiO₂ films.