Microwave extraction: Extraction of the samples was done with a microwave sample preparation system model MK-Ⅱ within minutes. The system was equipped with Teflon PFA sample vessels which were transparent for microwave energy, operated at approximately 1200 W and the maximal pressure and the maximal temperature were 1.3 MPa and 200 ºC respectively. Typically, 0.1 g of sample was immersed into 20 ml of THF or ethanol in the Teflon vessel, and extraction was assisted by microwave irradiation for 5 min.

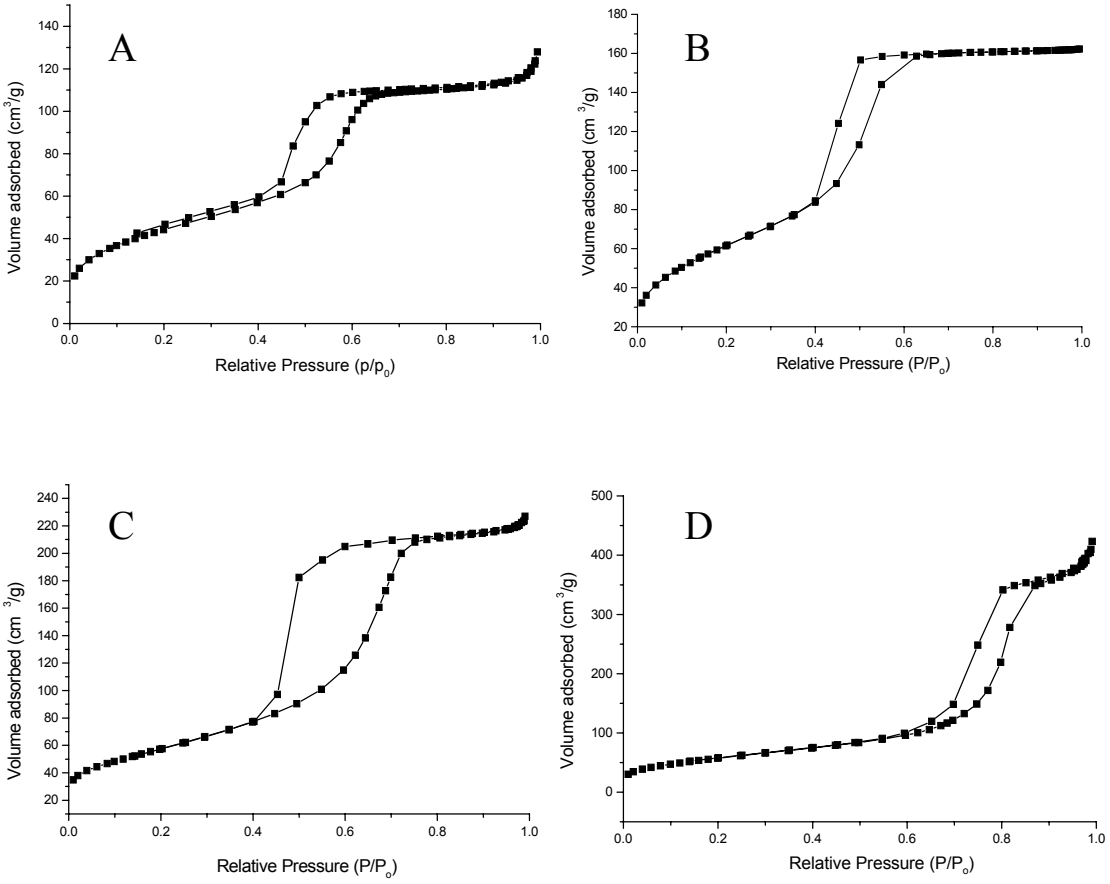

Figure 1 N_2 sorption curves of A) extracted (template, P123) B) calcined (template, P123) C)calcined (template, F108) mesoporous titania and D) calcined mesoporous alumina (template, P123). Curve A, B and D are typical IV isotherms with H1 hysteresis loops, indicating P123 can lead to hexagonal mesostructures. Curve C with a H2 hysteresis loop suggests that F108 tends to form caged like mesostructures.

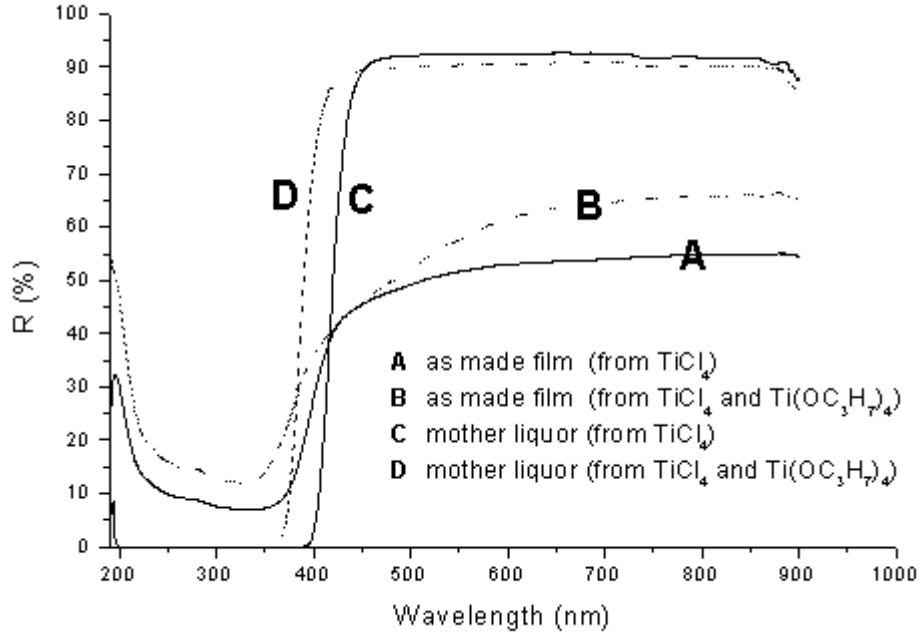

Figure 2 UV-VIS spectra of mesoporous titania films and the corresponding mother liquors.