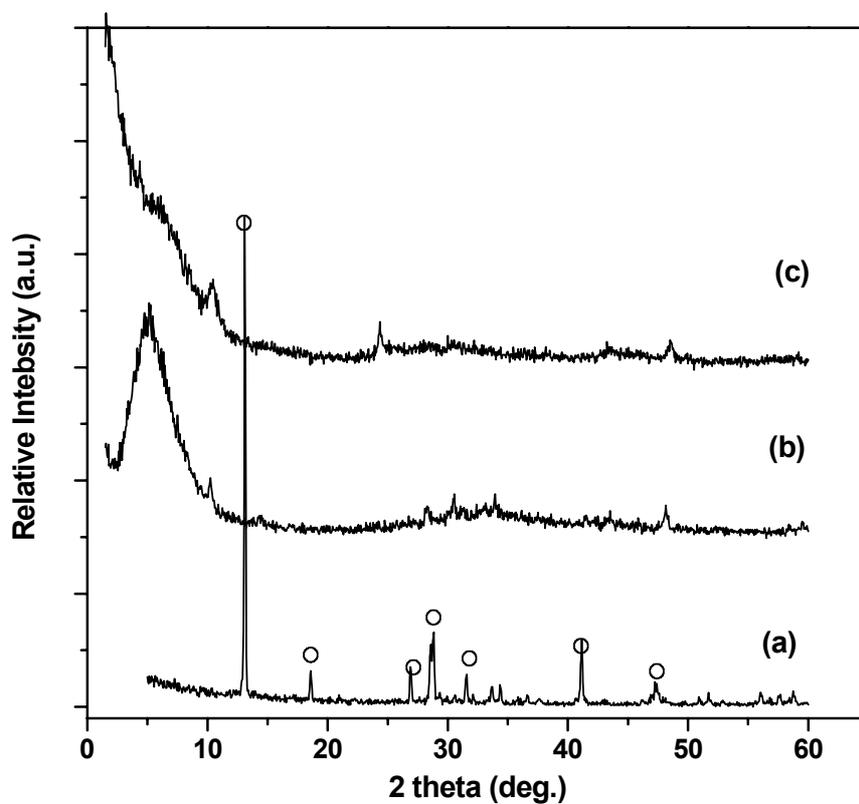


## A simple approach to mesoporous fibrous titania from potassium dititanate

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### Supplementary Information



**Fig. S1** XRD patterns of the sintered product (a) ( $\circ$ ,  $K_2Ti_2O_5$ ), the hydrated product (b) and the as-washed product (c).

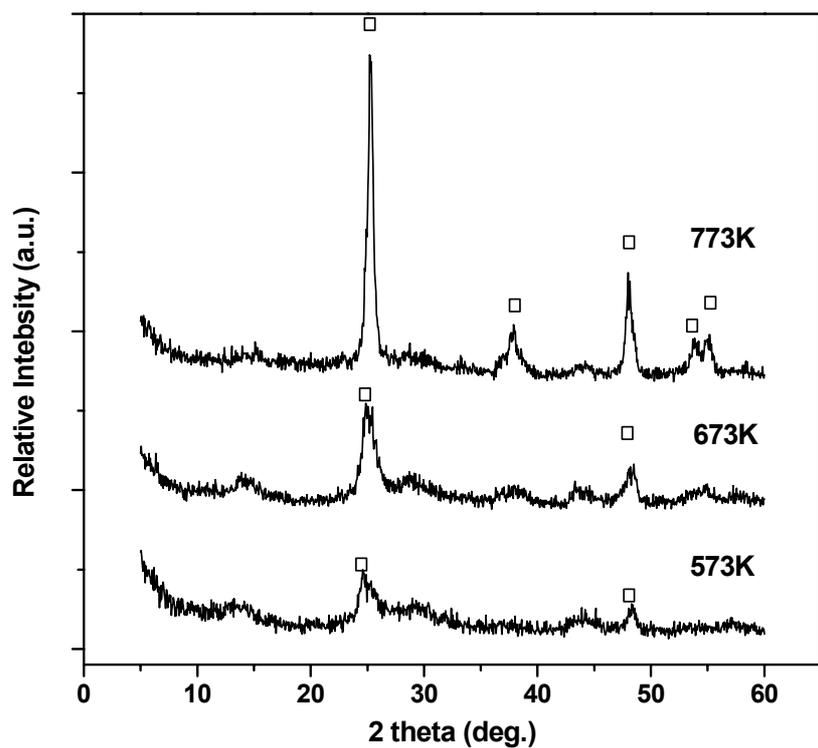
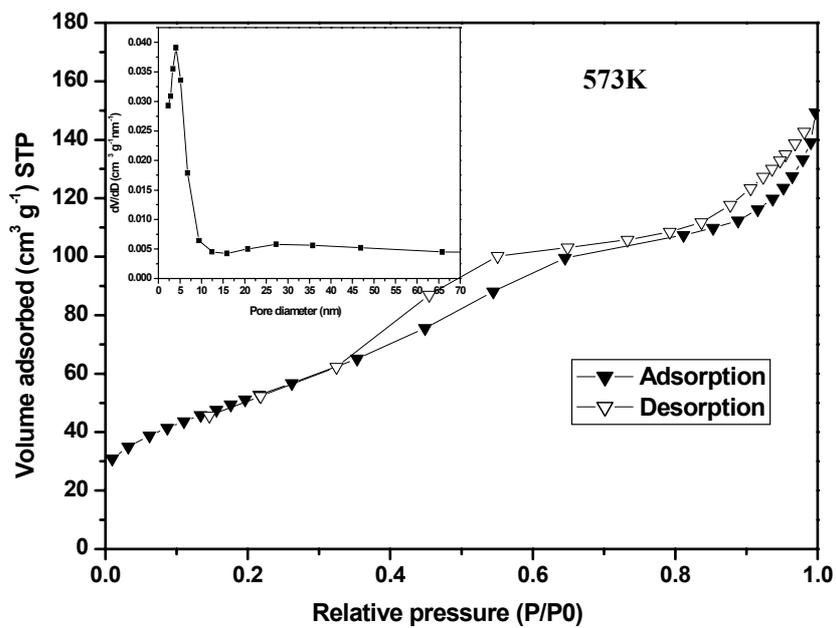
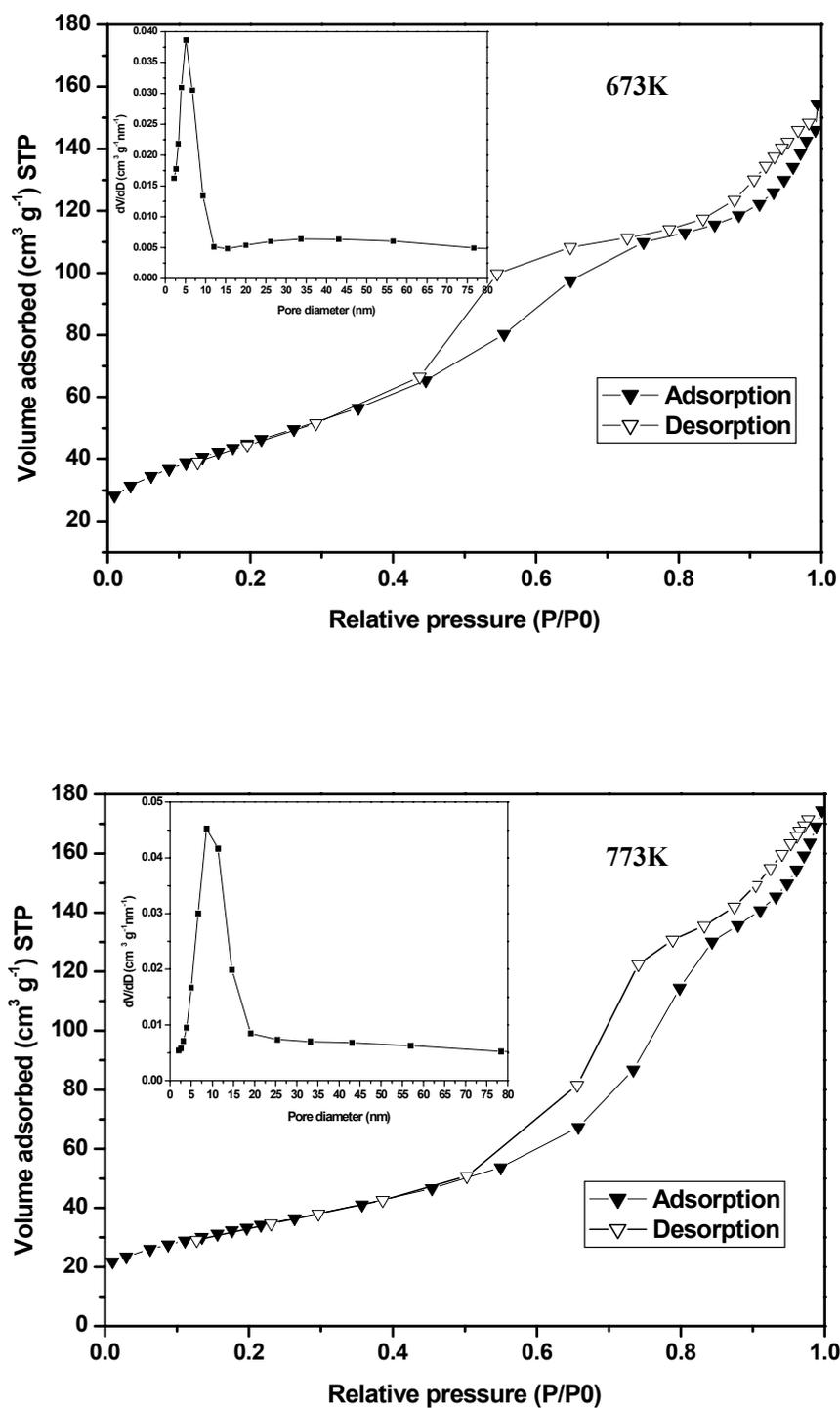
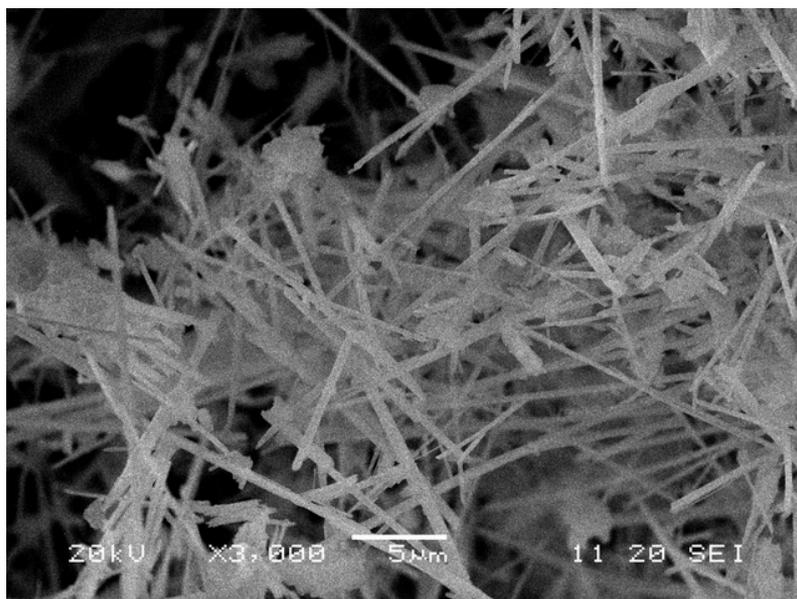


Fig. S2 XRD patterns of the calcined samples at elevated temperature (□, anatase).

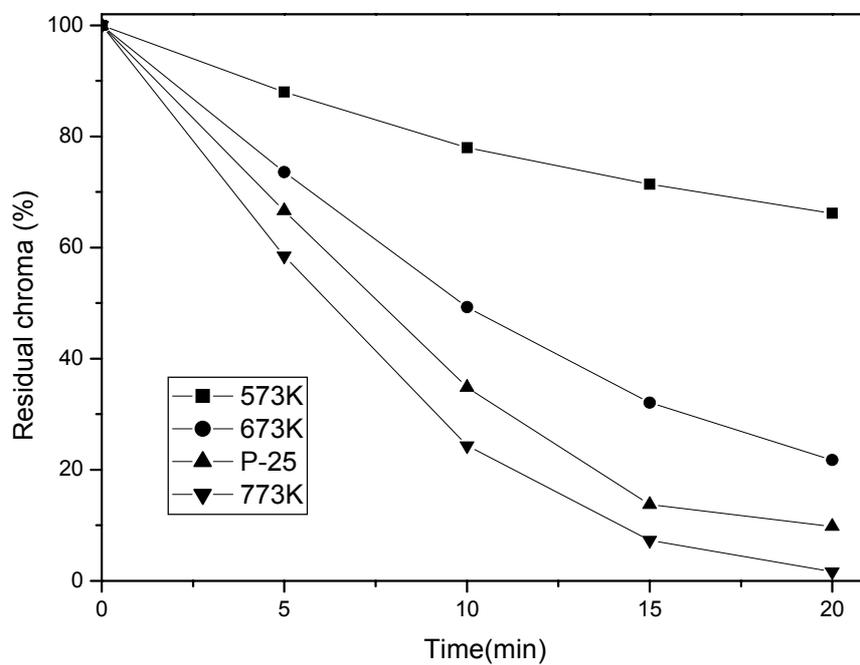




**Fig. S3** Nitrogen adsorption–desorption isotherms and the corresponding pore-size distribution (inset) for the calcined samples at 573K, 673K and 773K, respectively.



**Fig. S4** SEM image of mesoporous fibrous titania synthesized from the 970°C sintered product.



**Fig. S5** Photocatalytic activities of the calcined samples in comparison with P25 on the photodegradation of methyl orange.