Electronic Supporting Information

Exceptional thermal stability of undoped anatase TiO₂ photocatalysts prepared by a solvent-exchange method

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Fig. S1. Powder XRD patterns of the as-prepared samples



Fig. S2 DR UV-vis spectra of the as-prepared TiAq, TiAc and TiEt samples



Fig. S3 TG/DTG/DTA curves of the (A) TiAq, (B) TiAc and (C) TiEt samples



Figure S4. EELS spectra of some selected TiEt and TiAq samples; the inset shows the magnification of the nitrogen K-edge.



Fig. S5. Histograms of particle-size distribution for the **TiEt** (a) and **TiAq** (b) samples thermally treated at 800 °C



Fig. S6. Titanium L2,3 core-Loss and oxygen K core-Loss normalized EELS spectra from the TiEt (blue) and TiAq (red) samples treated at 800 °C



Fig. S7. SEM-images of the **TiAq** (a), **TiAc** (b), **TiEt** (c) samples thermally treated at 800 °C and the **TiEt** treated at 1000 °C (d)



Fig. S8. Photocatalytic decomposition of **MB** in presence of the catalysts thermally treated at 500 °C



Fig. S9. N_2 Adsorption-desorption isotherm at 77 K for the sample **TiAq** calcined at 800 °C (BET surface area: 9 m²·g⁻¹; mesopores volume: 0.026 cm³·g⁻¹)



Fig. S10. N₂ Adsorption-desorption isotherm at 77 K for the sample **TiEt** calcined at 800 °C (BET surface area: 34 m²·g⁻¹; mesopores volume: 0.50 cm³·g⁻¹)



Fig. S11. Powder XRD patterns of Evonik P25 thermally treated at different temperatures