

Supplementary Material

# Synthesis and Characterization of Anatase $\text{TiO}_2$ Microspheres Self-Assembled by Ultrathin Nanosheets

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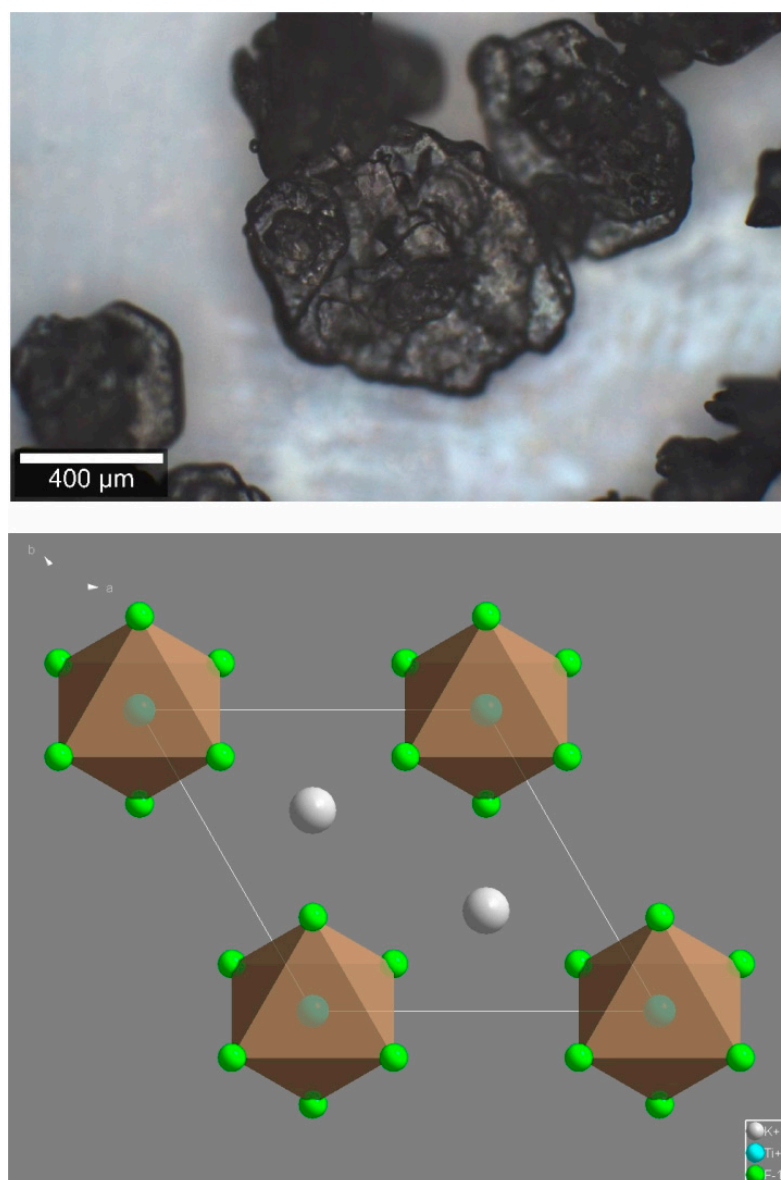
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**Figure S1.** Micrograph of potassium fluorotitanate powder (upper) and its crystal Structure (lower).

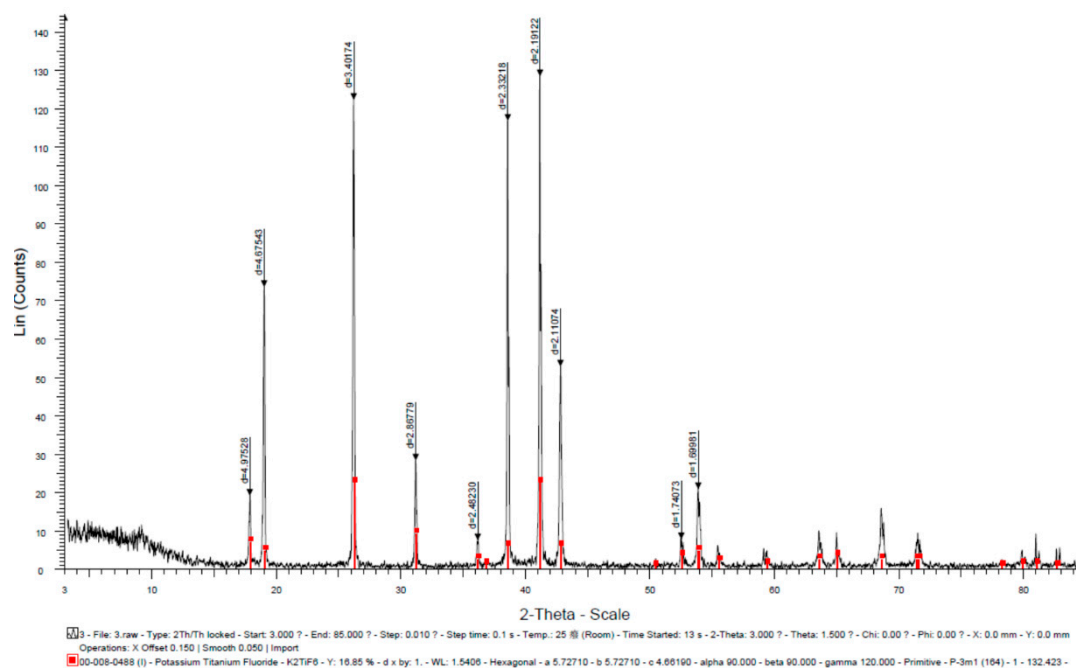


Figure S2. XRD patterns of the potassium fluorotitanate powder.

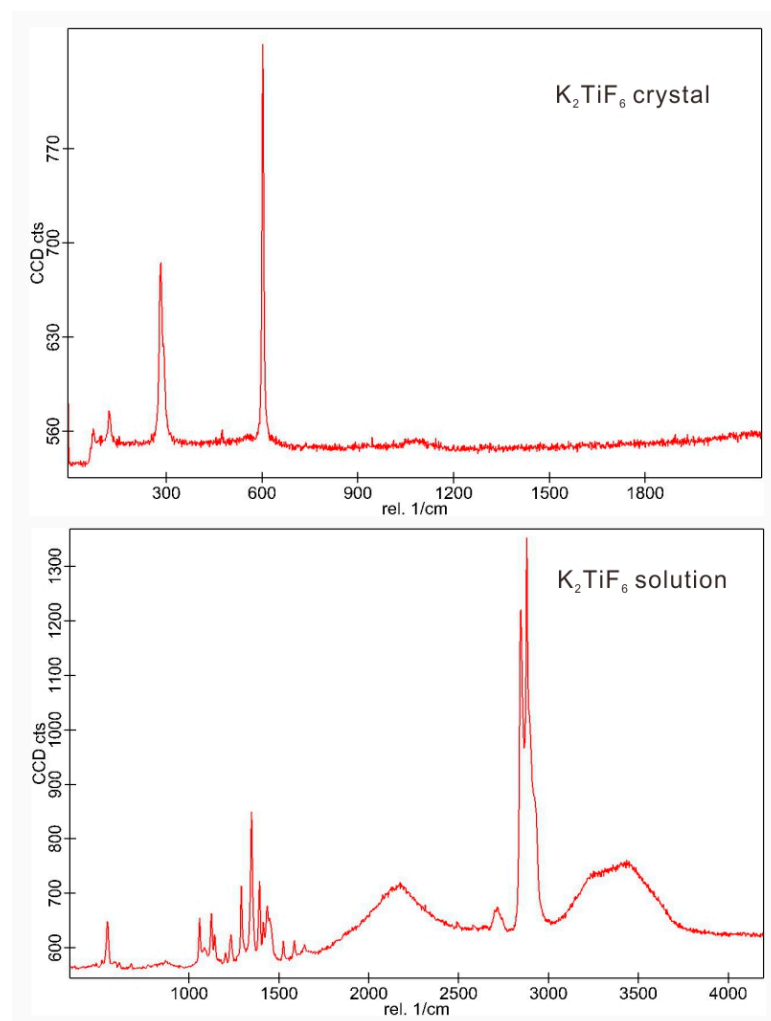
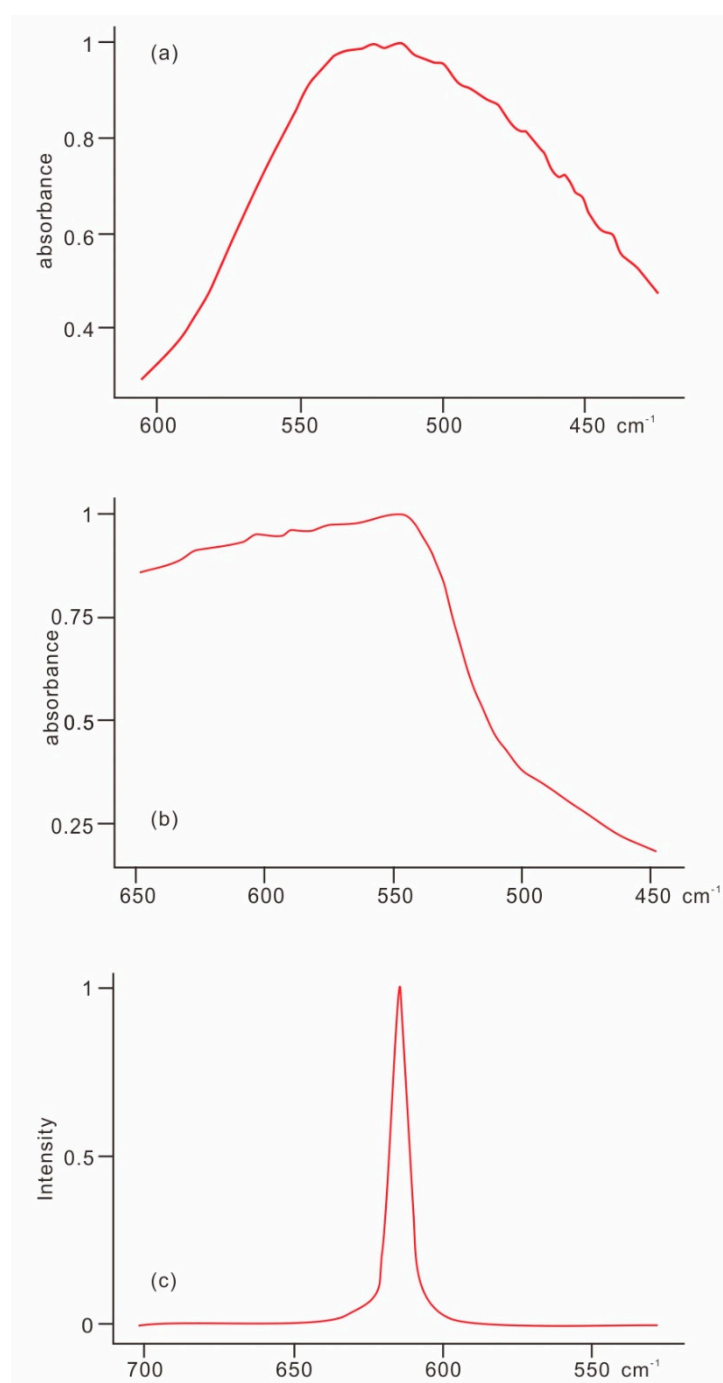


Figure S3. Raman spectra of the potassium fluorotitanate crystal (upper) and solution (lower).



**Figure S4.** ATR-IR (a), FTIR (b), and Raman (c) spectra of the potassium fluorotitanate (the data are from the aladdin website).

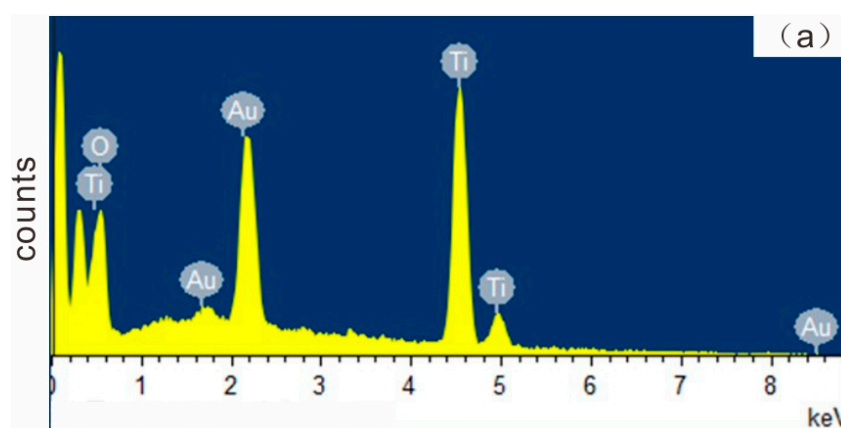


Figure S5. EDX analysis of the anatase  $\text{TiO}_2$  microsphere.

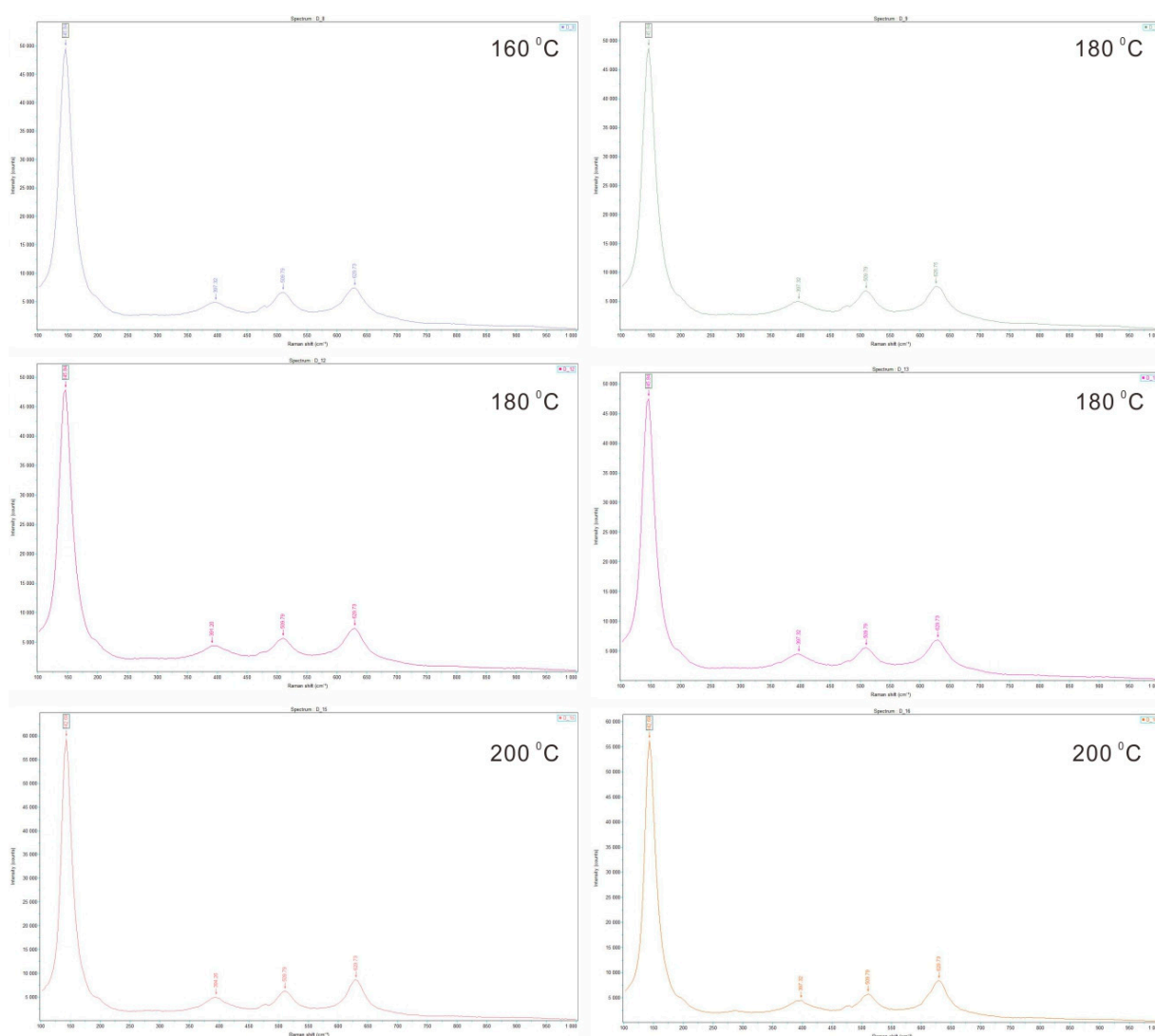


Figure S6. Raman spectra of the anatase  $\text{TiO}_2$  microsphere.