

## Electronic Supplementary Information

### Raman Study of 2D Anatase TiO<sub>2</sub> Nanosheets

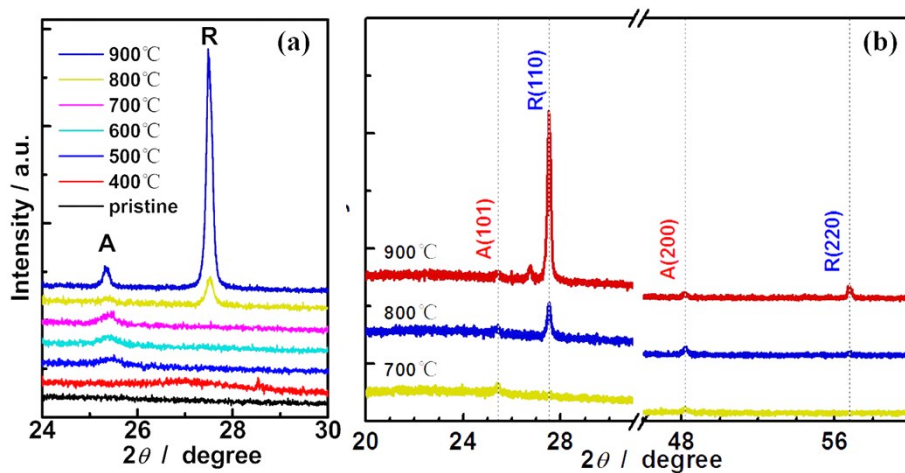
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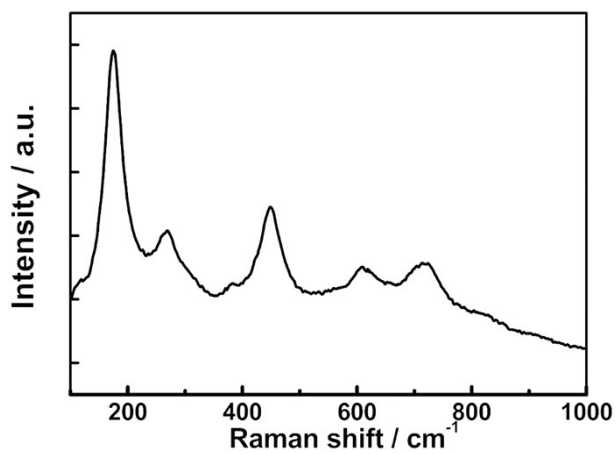
<sup>†</sup> These authors contributed equally.

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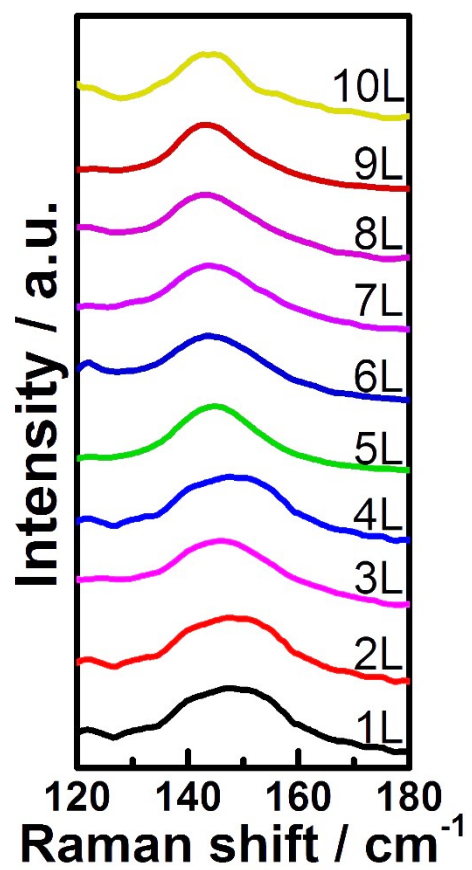
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**Fig. S1** (a) XRD pattern of as-prepared few-layer protonic titanate and TiO<sub>2</sub> NSs which annealed in the temperature range of 400- 900 °C; (b) in the temperature range of 700-900 °C.



**Fig. S2** Raman spectrum of the unexfoliated protonic titanate NSs.



**Fig. S3** Raman spectra of TiO<sub>2</sub> NSs obtained from protonic titanate NSs with different thickness.