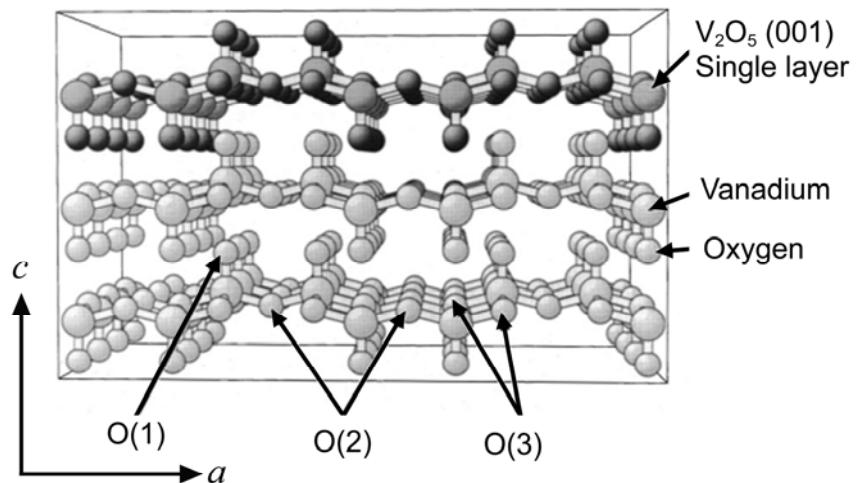


Supporting Information

(a)



(b)

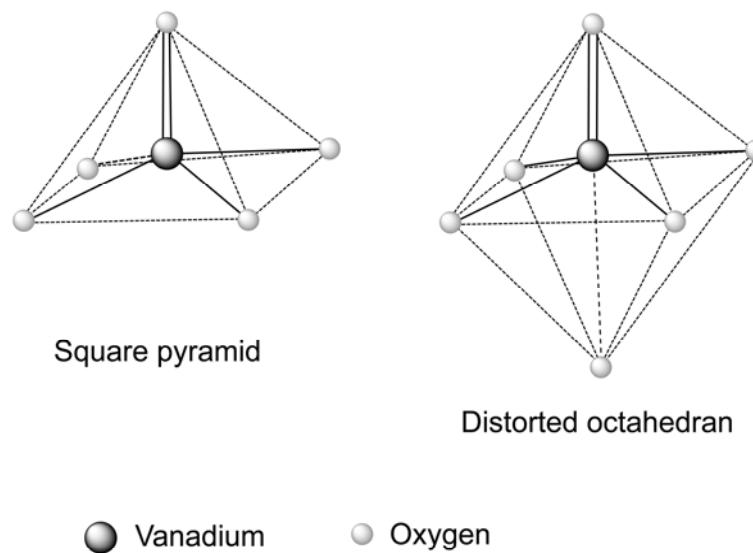


Fig. S1 Representation of V_2O_5 structure: (a) The layered orthorhombic structure and (b) square pyramid of VO_5 and distorted octahedron of VO_6 unit.

Fig. S1

Fig S2

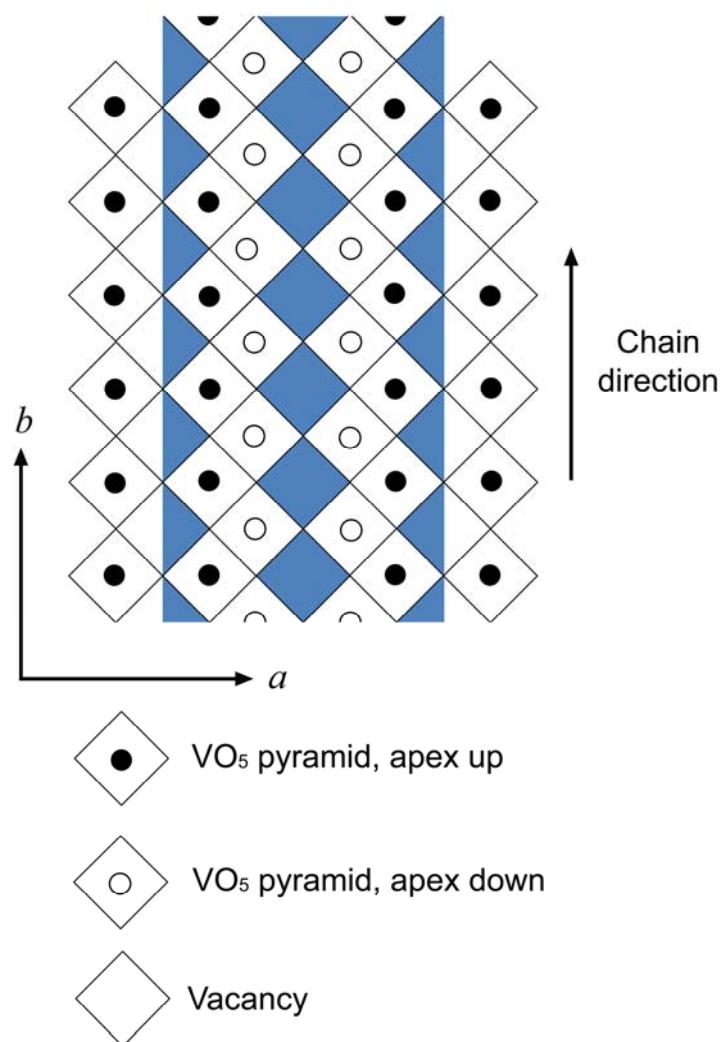


Fig. S2 Single layer slab of V_2O_5 nanofiber.

Fig. S3

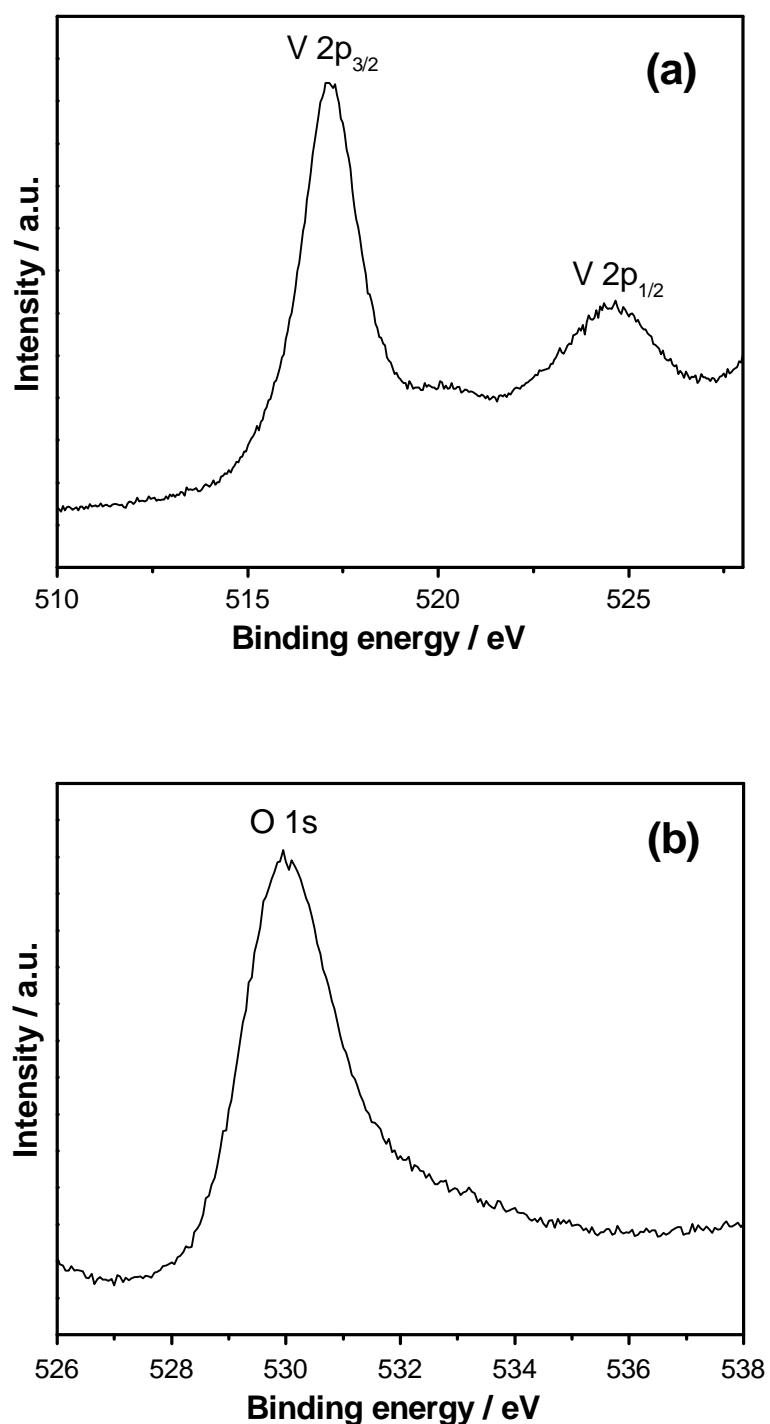


Fig. S3 High resolution XPS spectra of the as prepared V₂O₅ NBS: (a) V 2p and (b) O 1s.

Fig. S4

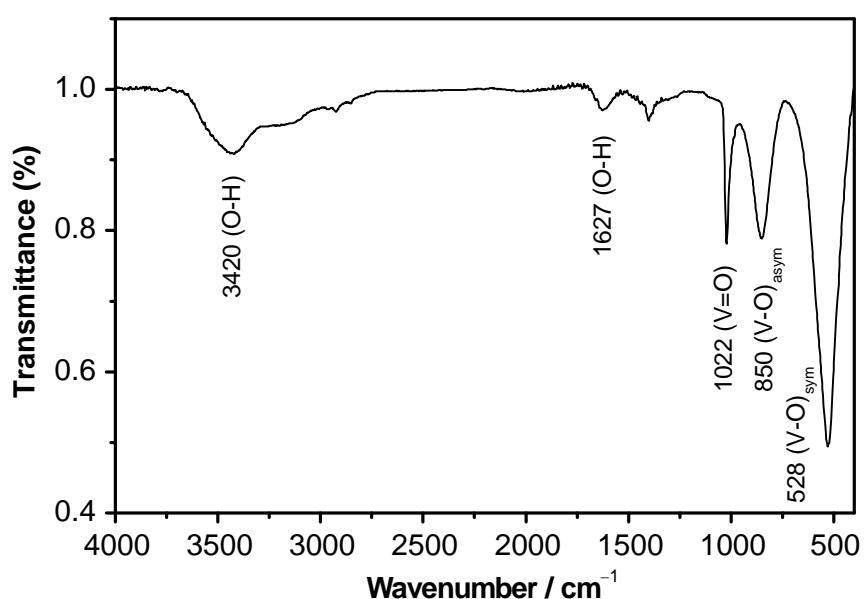


Fig. S4 FTIR spectrum of the as-prepared V_2O_5 NBs.

Fig. S5

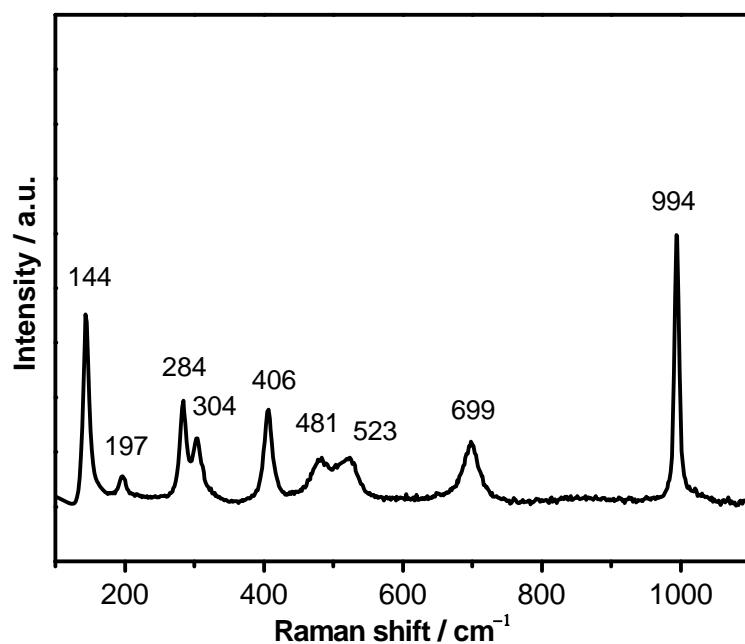


Fig. S5 Raman spectrum of the as-prepared V₂O₅ NBs.

Fig. S6

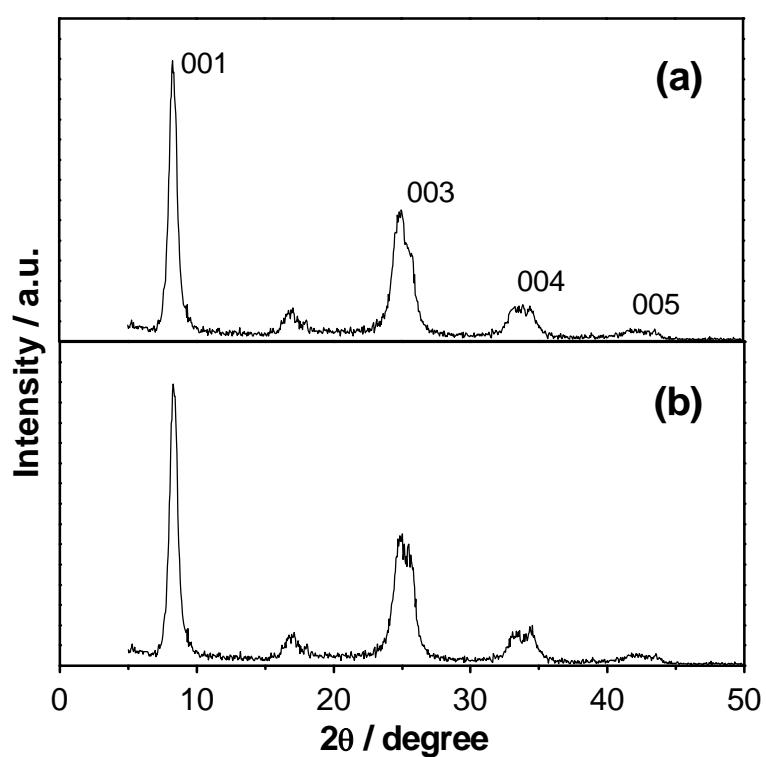


Fig. S6 XRD pattern of V_2O_5 prepared at (a) $220\text{ }^\circ\text{C}$ in the 3 h reaction time and (b) $200\text{ }^\circ\text{C}$ in the 24 h reaction time.

Fig. S7

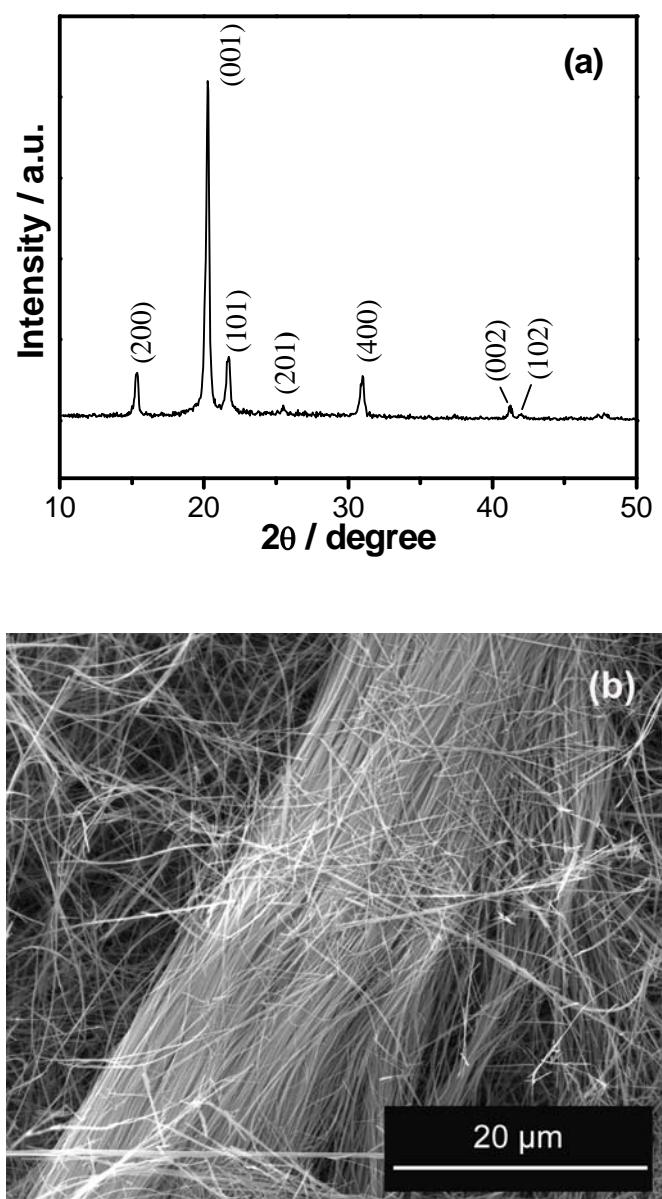


Fig. S7 (a) XRD pattern and (b) SEM image of V_2O_5 NBs prepared at $220\ ^\circ\text{C}$ in the 24 h reaction time.

Table S1

Table S1: V_2O_5 formation at different temperatures and reaction times.

reaction temperature (± 5 °C)	reaction time (h)	products
220	3	layered $\text{V}_2\text{O}_5 \cdot n\text{H}_2\text{O}$
220	7	V_2O_5 NBs
220	24	V_2O_5 NBs
200	7 and 24	layered $\text{V}_2\text{O}_5 \cdot n\text{H}_2\text{O}$
< 200	7 and 24	no product