

Electronic Supplementary Information for  
**Molten salt synthesis of  $\text{Na}_2\text{Ti}_3\text{O}_7$  and  $\text{Na}_2\text{Ti}_6\text{O}_{13}$  one-dimensional nanostructures and their photocatalytic and humidity sensing properties**

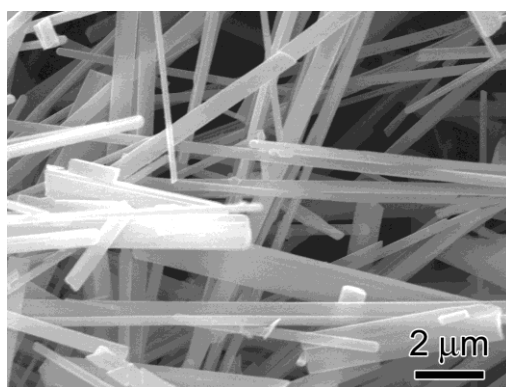
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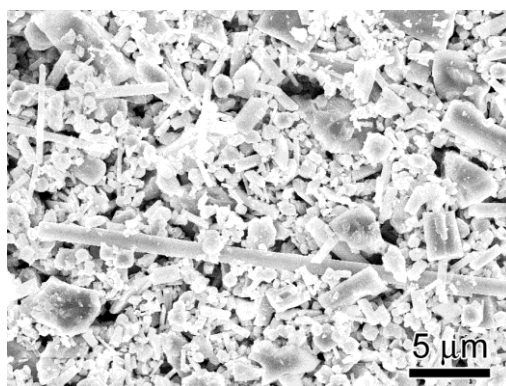
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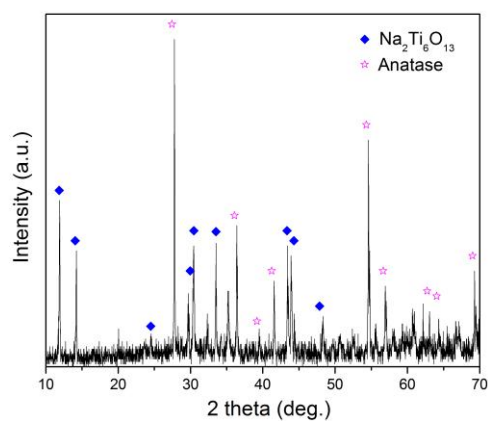
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**Fig. S1.** SEM image of  $\text{Na}_2\text{Ti}_6\text{O}_{13}$  whiskers synthesized at 925 °C.



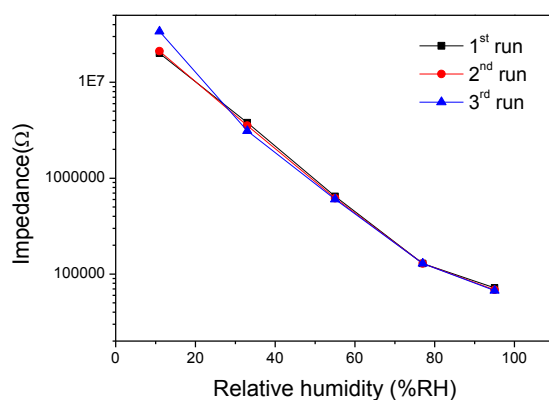
**Fig. S2.** SEM image of the product synthesized between  $\text{TiO}_2$  and  $\text{NaCl}$  at 1000 °C.



**Fig. S3.** XRD pattern of the product synthesized between  $\text{TiO}_2$  and  $\text{NaCl}$  at  $1000\text{ }^\circ\text{C}$ .



**Fig. S4.** SEM image of the product synthesized with  $\text{Na}_2\text{C}_2\text{O}_4/\text{TiO}_2$  molar ratio of 1 : 2 in the absence of surfactant NP-9.



**Fig. S5.** Stability of  $\text{Na}_2\text{Ti}_3\text{O}_7$  nanowires-based humidity sensor measure at a frequency of 40 Hz.